

Close Out Documents

AP-72A – 2716 E 46th Ave.

Asbestos Abatement and Structural Demolition

Prepared for:

Kiewit Infrastructure Co.
Attn: Megan Wood
160 Inverness Drive West, Suite 110
Englewood CO 80112

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1. Closeout Letter

January 22, 2019

Kiewit Infrastructure Co.
160 Inverness Drive West, Suite 110
Englewood, CO 80112

Re: SSCR AP-72A 2716 E 46th Ave.

Dear Kiewit Infrastructure Co.

This letter is confirm that all the work associated with the asbestos abatement and demolition of the structure located at 2716 E 46th Ave. Denver, CO 80216, also referred as parcel AP-72A, is complete.

The scope of work included the removal of Regulated Building Materials (RBMs), asbestos abatement, demolition of a 1,600 square foot residential structure, and the removal of the curb and driveway.

This document has been prepared to furnish you with key documents associated with this project for your records.

On behalf of the JKS Industries team, we would like to extend our appreciation to working with you on this project and look forward to working with you in the future.

Regards,



Jeffrey Knight,
President

2. CDPHE Asbestos Abatement Permit

ASBESTOS ABATEMENT PERMIT

This permit is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008, the Colorado Air Pollution Prevention and Control Act (25-7-101 or 25-7-501 et seq., C.R.S.) and the following provisions. It is only for the purpose of allowing asbestos abatement.

ADDITIONAL PERMIT PROVISIONS:

By performing work under this permit the abatement contractor agrees that the Division may revoke or suspend this permit should the Division find that the contractor:

- has violated or has aided and abetted in the violation of 25-7-101 or 25-7-501 et seq., C.R.S. or Regulation No. 8, Part B, or an order of the Division or Commission,
- has failed to meet any permit and notification requirement or failed to correct any violations cited by the Division during any inspection within a reasonable period of time, as may be determined by the Division,
- has used misrepresentation or fraud in obtaining this permit, or,
- has committed any act or omission which does not meet generally accepted standards of the practice of asbestos abatement.

As a contractor, you may be subject to other licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health and Environment, Air Pollution Control Division strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

THE ORIGINAL PERMIT MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This asbestos abatement permit is valid beginning 10/23/2018 through 11:59 PM on 10/22/2019.

The actual scheduled work dates are from 11/28/2018 through 11/29/2018.

Approval issued on: 11/19/2018

Record number: 143493

Notice Number: 18DE7238A-22

Variance: None

Comments: None

For the location specified below:

**AP-72A residential
Basement Room
2716 E. 46th Ave
Denver
Denver County**

This permit has been issued to:

Fee paid: \$80.00

Check number: CC 4845

Project Supervisor:

Andre M. Williams

Certification No.: 15776

Project AMS:

Logan Greenfield

Certification No.: 20715

Project Manager:

WAIVED

Certification No.: 15045

JKS Industries, LLC
747 Sheridan Blvd Unit 9A
Lakewood, CO 80214

Issued by: CA



ASBESTOS ABATEMENT NOTIFICATION and PERMIT APPLICATION FORM

FEE MUST ACCOMPANY THIS FORM. INCOMPLETE APPLICATIONS WILL BE RETURNED.



**Colorado Department
of Public Health
and Environment**

| | |
|---|---|
| <p>Single Family Residential Dwelling (SFRD) > 50 LF or 32 SF or a 55-gal. drum, but ≤ 260 LF or 160 SF or a 55-gallon drum</p> <p>[code 200] <input type="checkbox"/> \$0 [code 205] <input type="checkbox"/> \$60 [code 210] <input type="checkbox"/> \$60 [code 230] <input type="checkbox"/> \$180 [code 290] <input type="checkbox"/> \$300 [code 265] <input type="checkbox"/> \$420 [code 180/280] <input type="checkbox"/> \$55</p> | <p>Public and Commercial Building, School, and Single-Family Residential Dwelling: > 260 LF or 160 SF or a 55-gallon drum</p> <p>[code 100] <input type="checkbox"/> \$0 [code 105] <input type="checkbox"/> \$80 [code 110] <input type="checkbox"/> \$80 [code 130/232] <input type="checkbox"/> \$400 [code 190/292] <input type="checkbox"/> \$800 [code 165/267] <input type="checkbox"/> \$1200 [code 177] <input checked="" type="checkbox"/> \$80</p> |
| <p>Courtesy Notice</p> <p>Non-Public Access Notice (Opt Out)</p> <p>Notice</p> <p>30-Day Permit</p> <p>90-Day Permit</p> <p>365-Day Permit</p> <p>Notice or Permit Transfer</p> | |

Submit form to:
 Permit Coordinator
 Colorado Dept. of Public Health
 and Environment
 APCD-IE-B1
 4300 Cherry Creek Drive South
 Denver, CO 80246-1530
 Phone: 303-692-3100
 Fax: 303-782-0278
 asbestos@state.co.us

| | | | |
|---|---|--|--------------------------|
| Abatement Contractor | Abatement Site | Building Owner | |
| Company Name JKS Industries | Building Name (AP-72A) AP-72 Residential | Owner Name CDOT | |
| Street Address 747 Sheridan Blvd. Unit 9A | Specify location in the building where work will take place (e.g. floor, room, wing, etc.) Basement Room | Contact Athony DeVito | |
| City Lakewood | Street Address 2716 E 46th Avenue | Street Address 2000 S. Holly St. | |
| State CO | City Denver | City Denver | State CO |
| Zip code 80214 | County Denver | State CO | Zip code 80222 |
| Telephone # (303) 238-0207 | Building Contact Doug Messier | Telephone # (303) 512-5900 | Fax # () |
| Project Supervisor Andre Williams | Cell Phone # (817) 320-6749 | | |
| Project Personnel | | Disposal Site | |
| CO Project Mgr. Name See Project Manager Waiver form from CDOT | Start Date 11/28/2018 | Landfill Name Denver Arapahoe Disposal | |
| Cell Phone # () | Start Time 6:30am AM | Street Address 3500 South Gun Club Road | |
| CO Project Designer Name Daniel Beecke | Check the day(s) of operation: Su <input type="checkbox"/> M <input checked="" type="checkbox"/> Tu <input checked="" type="checkbox"/> W <input checked="" type="checkbox"/> Th <input checked="" type="checkbox"/> F <input checked="" type="checkbox"/> Sa <input checked="" type="checkbox"/> | City Aurora | State CO |
| Cell Phone # (303) 232-2660 | Emergency? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | City Aurora | Zip code 80018 |
| Consulting Firm Name All Phase Consulting, Inc. | Type of ACM: TSI, Texture, VAT, etc. Paper Duct Wrap | CDPHE Use Only | |
| A.M.S. Name Logan Greenfield | Square Feet / Type 55 gal. Drums | Postmark or Delivery date 11/14/18 | Approved by: [Signature] |
| Cell Phone # (719) 545-0375 | Linear Feet / Type 5 SF of Paper Duct Wrap | Form of Payment & # CC # 4845/8000 | PM req'd? [Signature] |
| | | Permit # 180070388A-02 | Record # 145493 |
| | | | Date issued: [Signature] |

Please describe below the work practices and procedures to be employed in conducting the abatement of asbestos. **BE SPECIFIC.** Indicate type(s) or ACBM to be abated (e.g. VAT, ceiling tile, TSI, etc.). Use another page if necessary.

This Multi-Phase 22 project will consist in removal and disposal of 5 SF of paper duct wrap under a secondary Glovebag containment. The friable materials will be removed using small hand tools (carpenters hammer, cats claw, crow bar and chisels) the material will be kept wet (1500 psi airless sprayer with amended water). The material will be enclosed in a glovebag and a secondary containment, will employ negative air pressure, a two chamber decontaminatin with HEPA vacuum and wet rags. This work will be completed per the Appendix A small scale projects guide lines. All work will be in accordance with Colorado Regulation #8 Part B. The secondary glove bag containment will be inspected and cleared by a State Certified AMS.

Form: AANPA08 Rev. 01/30/2008

3. CDPHE Demolition Permit

Colorado Department of Public Health and Environment
Air Pollution Control Division – Indoor Environment Program – Asbestos/IAQ Air Unit
4300 Cherry Creek Drive South, APCD-IE-B1
Denver, Colorado 80246-1530
Phone: 303-692-3100 – Fax: 303-782-0278
E-mail: asbestos@state.co.us

DEMOLITION APPROVAL NOTICE

This approval notice is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008 and the Colorado Air Pollution Prevention and Control Act C.R.S. (25-7-101 and 25-7-501 et seq). This notice signifies that the structure was inspected for asbestos, luminous exit signs (containing radioactive material), and Ozone-Depleting Refrigerants and the demolition contractor has properly notified the Colorado Department of Public Health and Environment pursuant to Regulation No. 8, Part B.

As a contractor, you may be subject to other demolition licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health and Environment, Air Pollution Control Division, strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

Please note that certain asbestos-containing materials (ACM) may remain in the structure during demolition. Therefore, any demolition debris left behind after the completion of post-demolition site cleanup may constitute a "reason to know of asbestos-contaminated soil" at the site, subject to the requirements of Section 5.5 of the Solid Waste Regulations (6 CCR 1007-2, Part 1).

THE ORIGINAL APPROVAL NOTICE MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This demolition approval notice is valid beginning 12/12/2018.

The actual scheduled work dates are from 12/12/2018 through 12/31/2018.

Approval issued on: 12/11/2018

Record number: 144112

Notice Number: 18DE8240D

For the location specified below:

AP-72A Residential

2716 E. 46th Ave

Denver

Denver County

Fee Paid: \$60.00

Check number: 5813

Asbestos Building Inspector:

Logan Greenfield

Cerification No.: 20715

Inspection Date: 12/06/2018

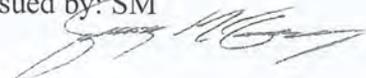
This notice has been issued to:

JKS Industries, Inc.

747 Sheridan Blvd. Unit 9A

Lakewood, CO 80214

Issued by: SM





DEMOLITION NOTIFICATION APPLICATION FORM

APPLICATION FEE MUST ACCOMPANY THIS FORM
INCOMPLETE APPLICATIONS WILL BE RETURNED

(Notice will be mailed to the demolition contractor unless specified otherwise)

Fee: \$50 + \$5 per 1000 ft² of area to be demolished = \$ 60.00
(See instruction #1 on reverse side)

Submit form to:
Permit Coordinator
Colorado Dept. of Public
Health and Environment
APCD-IE-B1
4300 Cherry Creek Drive
South
Denver, CO 80246-1530
Phone: 303-692-3100
Fax: 303-782-0278
Asbestos@state.co.us

Colorado Department
of Public Health
and Environment

| | | | | | | |
|--|--|-------------------------|--------------------------------|--|-------------------|--|
| Demolition Contractor | Company Name: JKS Industries | | | Building Name: AP-72A Residential | | |
| | Street: 747 Sheridan Blvd. #9A | | | Square footage of footprint of facility or portion of facility to be demolished <u>1600</u> | | |
| | City: Lakewood | State: CO | Zip Code: 80214 | Street: 2716 E 46 th Ave | | |
| | Telephone # (303) 238-0207 | Fax # (303) 238-0452 | | City: Denver | County: Denver | Zip Code: 80216 |
| | Project Manager: Jeffrey Knight | | Cell Phone # (720) 402-4410 | Proposed Start Date 12/12/2018 | | Proposed Completion Date 12/31/2018 |
| | I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished. | | | | | |
| Signature: | | | Print Name: Jeffrey Knight | | | |
| Landfill Receiving Building Debris: Denver Arapahoe Disposal Site | | | | | | |

| | | | | | | |
|------------------------------------|--|--|--|-----------------------------------|--------------|-------------------------------|
| Asbestos Removal Contractor | General Abatement Contractor (GAC) JKS Industries | | | Owner's Name: CDOT | | |
| | CDPHE Asbestos Permit # 18DE7238A-22 | Total Quantity of Asbestos Removed 5 SF | | Street: 2000 S Holly St. | | |
| | Date Removal Completed 12-6-18 | Telephone # (303) 238-0207 | | City: Denver | State: CO | Zip Code: 80222 |
| | Type(s) of Asbestos-Containing Material Removed: 5 SF Paper Duct Wrap | | | Contact's Name: Anthony DaVito | | Telephone # (303) 512-5900 |

With my signature below, I certify that I possess current AHERA accreditation and state of Colorado certification as an Asbestos Building Inspector. I also certify that I have thoroughly inspected the facility to be demolished, as listed in the Demolition Site block above, sampled all suspect materials, had all samples analyzed for the presence of asbestos by a NVLAP-accredited laboratory, and have determined that no Regulated ACM exists anywhere in the facility.* I also certify that I have informed the owner/operator of the facility or the demolition contractor that any asbestos-containing material allowed to stay in the facility must remain non-friable during demolition. Specify type(s) of ACM remaining, below: (check appropriate box(es)):

Vinyl asbestos floor tile (VAT) VAT mastic Tar/asphalt impregnated roofing Asphaltic pipe coatings
 Spray-applied tar coatings Caulking Glazing Other, specify:

Signature: (In Blue Ink)

Printed Name: Logan Greenfield

Date of Final Inspection: 12-6-18 CO Cert #: 20715 Expiration Date: Oct 18, 2019 Telephone #: (719) 545-0375 Cell Phone #: (719) 260-0036

I verify that all refrigerants from air conditioning/refrigeration appliances have been properly recovered in accordance with AQCC Regulation No. 15 (for information on CFC requirements call 692-3100). I further verify that all luminous exit signs (containing radioactive material) have been disposed of in accordance with 6 CCR 1007-1 subpart 3.6.4.3 (for information on luminous exit sign requirements call 303-692-3320).

CHECK THE APPROPRIATE BOX:

Building Owner Contractor Other Date: 12/4/18

Signature:

Print Name: JEFF KNIGHT

THIS BOX IS FOR CDPHE USE ONLY:

Postmark or Hand Delivery Date: 12/7/18 Approved By:

Form of Payment & #: check # 5813 / 5160 Permit #: 82400 Record #: 14412 Code: initial-310 transfer-380 Date Issued:

* Regulated asbestos-containing materials means (a) friable asbestos-containing material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this regulation. Note: Asbestos-containing sheet vinyl and linoleum must be properly abated/removed prior to demolition.

APPROVED

DATE 12/7/18 CDPHE RT

Rev. 01/30/08

DEC - 7 2018
APCD
Stationary
Source

4. JKS Asbestos Certifications



Colorado Department
of Public Health
and Environment

General Abatement Contractor

This certifies that

JKS Industries, LLC

GAC No.: 18531

has met the certification requirements of 25-7-507, C.R.S. and Air Quality Control Commission Regulation No. 8, Part B, and is hereby authorized to perform asbestos abatement activities in the state of Colorado.

Issued: July 18, 2018

Expires: July 18, 2019


Annette Baselo
Authorized APCD Representative

SEAL

5. JKS Workers Asbestos Certifications

Colorado Department
of Public Health and
Environment



Supervisor



Asbestos Certification

**Andre M.
Williams**

Expires: 11/21/2018 Cert. #: 15776
Date Issued: 11/21/2017



INTERNATIONAL

Environmental and Safety Training LLC
720 Billings Street Unit F
Aurora, Colorado 80011
Phone # (720) 859-3134
Fax # (720) 859-0660

CERTIFICATE TRAINING

ANDREE WILLIAMS

Has successfully completed
The EPA-APPROVED ASHERA ANNUAL ASBESTOS REFRESHER
COURSE for **CONTRACTOR/SUPERVISOR**
And passed the requirements examination in that discipline
This course is EPA-Approved under Section 206 of the
Toxic Substance Control Act (TSCA)

Course Date 09/15/2018
No. Hours 8
Certificate No. CO091518-02ASR
Expires 09/15/2019

This course meets the
requirements of
AQCC Reg. #8 Part B



Invalid without raised seal


Training Director

Midtown Occupational Health Services
 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

Applicants Name Andree Williams

The above individual was seen by me on 3/19/12 in accordance to 29 CFR 1926.1101(Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following was performed:

1. Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2. Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3. Review of information from previous medical examinations, if available.
4. A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5. Determined that a chest roentgenogram was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6. Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may not use a respiratory device while performing his/her required duties.
7. The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8. In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9. In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services
 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
 Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:

Comments/ Limitations CXR 2 @ now pending


 Examining Provider

3/19/19
 Date

Respirator Fit Test

I, Andree Williams, acknowledge that I have been fit tested and trained for the proper use and care of my respirator. I have read and understand JKS's written respiratory program manual.

Date of Fit Test: 5/7/2018 Fit Test Conductor: Rabea Domingo

Respirator Information

- 1. Manufacturer: North
- 2. Model: 7700M
- 3. Size (Circle one): SMALL MEDIUM LARGE
- 4. Approval Number: TC-84A-0592

Irritant smoke used (Circle one)? YES NO

Please initial the following as each test is completed:

- Breathe normally through the respirator
- Breathe deeply through the respirator. Be certain that your breaths are deep and regular
- Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
- Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
- Do several jumping jacks to ensure that the respirator does not come loose from your face.
- Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
- Read the Rainbow Passage
When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.

Employee Signature: Andree Williams

Date: 5/7/18

Fit Test Conductor Signature: Rabea Domingo

Date: 5/7/2018

Colorado Department
of Public Health and
Environment



Worker



Asbestos Certification

Aura L.
De Paz

Expires: 6/15/2019 Cert. #:20488
Date Issued: 6/13/2018

INTERNATIONAL



Environmental and Safety Training L.L.C.
720 Billings Street Unit F
Aurora, Colorado 80011
Phone # (720) 859-3134
Fax # (720) 859-0660

CERTIFIES THAT

AURA DE PAZ

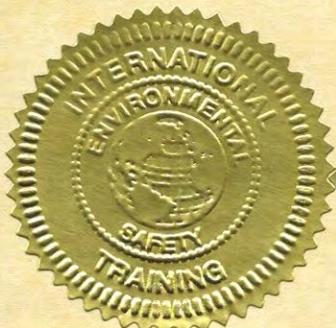
Has successfully completed
The **EPA- APPROVED AHERA ANNUAL ASBESTOS REFRESHER**
COURSE for **WORKER**

And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the
Toxic Substance Control Act (TSCA)

Course Date 05/12/2018
No. Hours 8
Certificate No. CO051218-02AWR
Expires 05/12/2019

This course meets the
requirements of
AQCC Reg. #8 Part B



Invalid without raised seal

Training Director

Midtown Occupational Health Services
2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

Applicants Name

Aura DePaiz

The above individual was seen by me on 5-15-18 in accordance to 29 CFR 1926.1101(Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following was preformed:

1. Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2. Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3. Review of information from previous medical examinations, if available.
4. A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5. Determined that a chest roentgenogram was was not required as part of this examination. (note according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6. Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties.
7. The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8. In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9. In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services
2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

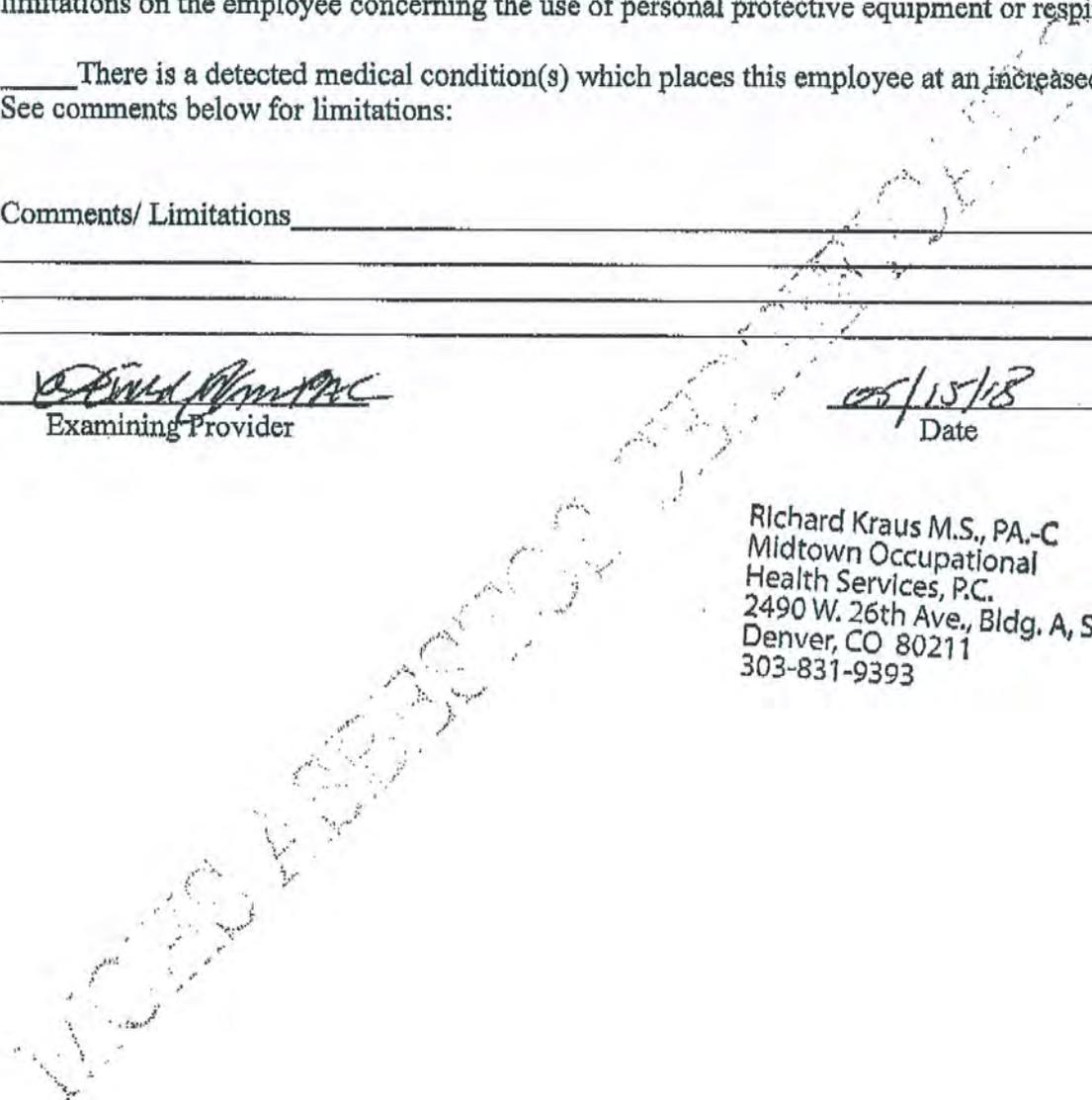
There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:

Comments/ Limitations _____

Richard Kraus M.S., PA.-C
 Examining Provider

05/15/18
 Date

Richard Kraus M.S., PA.-C
 Midtown Occupational
 Health Services, P.C.
 2490 W. 26th Ave., Bldg. A, Suite 300
 Denver, CO 80211
 303-831-9393



Respirator Fit Test

I, Aura De Paz, acknowledge that I have been fit tested and trained for the proper use and care of my respirator. I have read and understand JKS's written respiratory program manual.

Date of Fit Test: 05/10/2018 Fit Test Conductor: Ruben

Respirator Information

- 1. Manufacturer: North
- 2. Model: 7700M
- 3. Size (Circle one): SMALL MEDIUM LARGE
- 4. Approval Number: TC-84A-0592

Irritant smoke used (Circle one)? YES NO

Please initial the following as each test is completed:

- ADP Breathe normally through the respirator
- ADP Breathe deeply through the respirator. Be certain that your breaths are deep and regular
- ADP Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
- ADP Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
- ADP Do several jumping jacks to ensure that the respirator does not come loose from your face.
- ADP Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
- ADP Read the Rainbow Passage

When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.

Employee Signature: *Aura De Paz*

Date: ADP 05/10/2018
~~10/05/2018~~

Fit Test Conductor Signature: *Ruben*

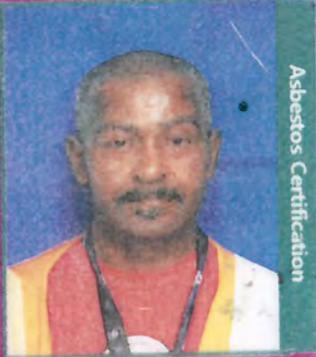
Date: 5/10/2018

Colorado Department
of Public Health and
Environment



Replacement

Work



Asbestos Certification

Paul R
Williams

Expires: 6/8/2019 Cert. #: 19371
Date Issued: 6/29/2018

INTERNATIONAL

Environmental and Safety Training LLC
720 Billings Street Unit F
Aurora, Colorado 80011
Phone # (720) 859-3134
Fax # (720) 859-0660



CERTIFIES THAT

PAUL WILLIAMS

Has successfully completed
The **EPA- APPROVED AHERA ANNUAL ASBESTOS REFRESHER**
COURSE for CONTRACTOR/SUPERVISOR
And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the
Toxic Substance Control Act (TSCA)

Course Date 05/04/2018
No. Hours 8
Certificate No. CO050418-22ASR
Expires 05/04/2019

This course meets the
requirements of
AQCC Reg. #8 Part B



Invalid without raised seal

Training Director

Midtown Occupational Health Services
2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

Applicants Name Paul Williams

The above individual was seen by me on 6-15-18 in accordance to 29 CFR 1926.1101(Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following was performed:

1. Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2. Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3. Review of information from previous medical examinations, if available.
4. A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5. Determined that a chest roentgenogram was was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6. Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties.
7. The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8. In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9. In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services
2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:

Comments/ Limitations _____

Lawrence Cedillo
 Examining Provider

JUN 15 2018

Date

Lawrence Cedillo D.O.
 Midtown Occupational
 Health Services, P.C.
 2490 W. 26th Ave., Bldg. A, Suite 300
 Denver, CO 80211
 303-831-9393

Midtown Occupational Health Services

2490 W 26th Avenue
 Building A, Suite 300
 Denver, CO 80211

Williams, Paul

ID: 0174 Age: 50 (3/9/1968)

Gender Male Height 68 in
 Ethnicity African Weight 166 lb BMI 25.2

FVC (ex only)

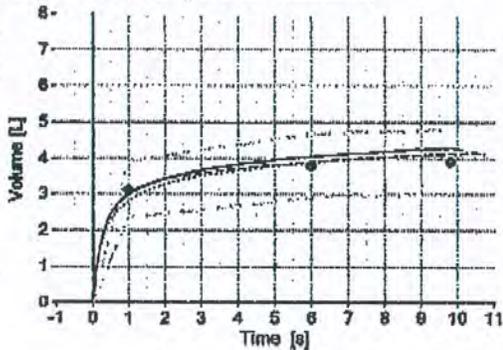
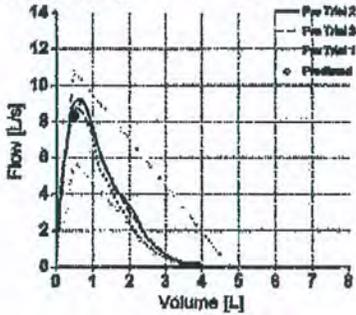
Your FEV1 / Predicted: 96%

Test Date 6/15/2018 10:48:16 AM Interpretation -- Value Selection Best Value
 Post Time Predicted Hankinson (NHANES III), 1999 BTPS (IN/EX) 1.12/1.02

| Parameter | Pred | LLN | Pre | | | | %Pred |
|----------------|------|------|------|---------|---------|---------|-------|
| | | | Best | Trial 2 | Trial 3 | Trial 1 | |
| FVC [L] | 3.90 | 3.02 | 4.29 | 4.29 | 4.16 | 4.13 | 110 |
| FEV1 [L] | 3.12 | 2.34 | 3.00 | 3.00 | 2.98 | 2.80 | 96 |
| FEV1/FVC [%] | 80.0 | 69.6 | 69.9 | 69.9 | 71.6 | 67.7* | 87 |
| FEF25-75 [L/s] | 3.15 | 1.47 | 1.69 | 1.69 | 1.88 | 1.47 | 54 |
| PEF [L/s] | 8.34 | 5.83 | 9.28 | 9.28 | 8.68 | 9.10 | 111 |
| FET [s] | - | - | 9.8 | 9.8 | 10.4 | 9.9 | - |

* Indicates value outside normal range or significant post change.

Session Quality Pre B (FEV1 Var=0.02L (0.8%); FVC Var=0.13L (3.1%))



Lawrence Cedillo D.O.
 Midtown Occupational
 Health Services, P.C.
 2490 W. 26th Ave., Bldg. A, Suite 300
 Denver, CO 80211
 303-831-9393

JKS INDUSTRIES

RESPIRATOR FIT TEST

APPENDIX A – NORTH

EMPLOYEES WORKING UNDER THIS RESPIRATOR PROGRAM MUST ACKNOWLEDGE BY SIGNING THIS FORM. THEY HAVE BEEN FIT TESTED AND HAVE BEEN TRAINED FOR THE PROPER USE AND CARE OF THEIR RESPIRATOR. THEY HAVE READ AND UNDERSTAND THE COMPANY'S WRITTEN RESPIRATOR PROGRAM MANUAL.

Paul R. Williams

EMPLOYEE NAME PRINTED OR TYPED

3/26/2018

DATE OF FIT TEST

Ruben O. Dongo

FIT TEST CONDUCTOR

RESPIRATOR:

1. MANUFACTURER: North

2. MODEL: 7700M

3. SIZE: Medium

4. APPROVAL NUMBER: TC-84A-0592

IRRITANT SMOKE

[Signature]
TESTING AGENT

Colorado Department
of Public Health and
Environment



Worker



Asbestos Certification

Victor
Lerma

Expires: 2/8/2019 Cert. #: 19908

Date Issued: 1/31/2018

INTERNATIONAL



Environmental and Safety Training L.L.C.
720 Billings Street Unit F
Aurora, Colorado 80011
Phone # (720) 859-3134
Fax # (720) 859-0660

CERTIFIES THAT

VICTOR LERMA

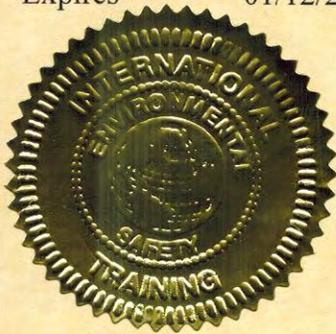
Has successfully completed
The **EPA- APPROVED AHERA ANNUAL ASBESTOS REFRESHER**
COURSE for WORKER

And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the
Toxic Substance Control Act (TSCA)

Course Date 01/12/2019
No. Hours 8
Certificate No. CO011219-16AWR
Expires 01/12/2020

This course meets the
requirements of
AQCC Reg. #8 Part B



Invalid without raised seal

Training Director

Midtown Occupational Health Services
2490 W. 26th Ave. Ste. 300-A Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

Applicants Name Victor Laxma

The above individual was seen by me on 02/12/18 in accordance to 29 CFR 1926.1101(Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following was preformed:

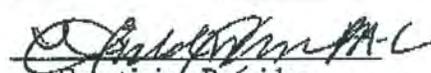
1. Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2. Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3. Review of information from previous medical examinations, if available.
4. A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5. Determined that a chest roentgenogram was was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(i)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6. Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties.
7. The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8. In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9. In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services
2490 W. 26th Ave. Ste. 300-A Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

 ✓ There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

 There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:

Comments/ Limitations _____


 Examining Provider

02/12/18
 Date

Richard Kraus M.S., PA.-C
 Midtown Occupational
 Health Services, P.C.
 2490 W. 26th Ave., Bldg. A, Suite 300
 Denver, CO 80211
 303-831-9393

Respirator Fit Test

I, Victor Lerman, acknowledge that I have been fit tested and trained for the proper use and care of my respirator. I have read and understand JKS's written respiratory program manual.

Date of Fit Test: 05-07-2018 Fit Test Conductor: Rabea Osmun

Respirator Information

- 1. Manufacturer: North
- 2. Model: 7700M
- 3. Size (Circle one): SMALL MEDIUM LARGE
- 4. Approval Number: TC-84A-0592

Irritant smoke used (Circle one)? YES NO

Please initial the following as each test is completed:

- Breathe normally through the respirator
- Breathe deeply through the respirator. Be certain that your breaths are deep and regular
- Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
- Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
- Do several jumping jacks to ensure that the respirator does not come loose from your face.
- Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
- Read the Rainbow Passage
 When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.

Employee Signature: Victor Lerman

Date: 5-7-18

Fit Test Conductor Signature: Rabea Osmun

Date: 5/7/2018

Colorado Department
of Public Health and
Environment



Worker



Asbestos Certification

**Jessenia
Galarza-Pacheco**

Expires: 6/21/2019 Cert. #:22153

Date Issued 6/21/2018

INTERNATIONAL



Environmental and Safety Training L.L.C.
720 Billings Street Unit F
Aurora, Colorado 80011
Phone # (720) 859-3134
Fax # (720) 859-0660

CERTIFIES THAT

JESSENIA GALARZA PACHECO

Has successfully completed
The **EPA- APPROVED AHERA ANNUAL ASBESTOS REFRESHER**
COURSE for WORKER

And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the
Toxic Substance Control Act (TSCA)

Course Date 06/16/2018
No. Hours 8
Certificate No. CO061618-16AWR
Expires 06/16/2019

This course meets the
requirements of
AQCC Reg. #8 Part B



Invalid without raised seal

Training Director

Midtown Occupational Health Services
2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

Applicants Name Jessenia Galarza

The above individual was seen by me on 07/27/18 in accordance to 29 CFR 1926.1101 (Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following was performed:

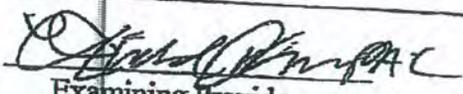
1. Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2. Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3. Review of information from previous medical examinations, if available.
4. A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5. Determined that a chest roentgenogram was was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6. Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties.
7. The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8. In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9. In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services
2420 W. 26th Ave. Ste. 200-D Denver, CO 80211
Phone: (303) 831-9393 Fax: (303) 831-6335
OSHA Asbestos Certification

There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:

Comments/ Limitations _____


Examining Provider

07/27/18
Date

Richard Kraus M.S., PA.-C
Midtown Occupational
Health Services, P.C.
2490 W. 26th Ave., Bldg. A, Suite 300
Denver, CO 80211
303-831-9393

Respirator Fit Test

I, Jessenia Galarza, acknowledge that I have been fit tested and trained for the proper use and care of my respirator. I have read and understand JKS's written respiratory program manual.

Date of Fit Test: 12-11-18 Fit Test Conductor: JOHN L

Respirator Information

- 1. Manufacturer: North
- 2. Model: 7700M
- 3. Size (Circle one): SMALL MEDIUM LARGE
- 4. Approval Number: TC-84A-0592

Irritant smoke used (Circle one)? YES NO

Please initial the following as each test is completed:

- Breathe normally through the respirator
- Breathe deeply through the respirator. Be certain that your breaths are deep and regular
- Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
- Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
- Do several jumping jacks to ensure that the respirator does not come loose from your face.
- Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
- Read the Rainbow Passage

When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.

Employee Signature: Jessenia Galarza

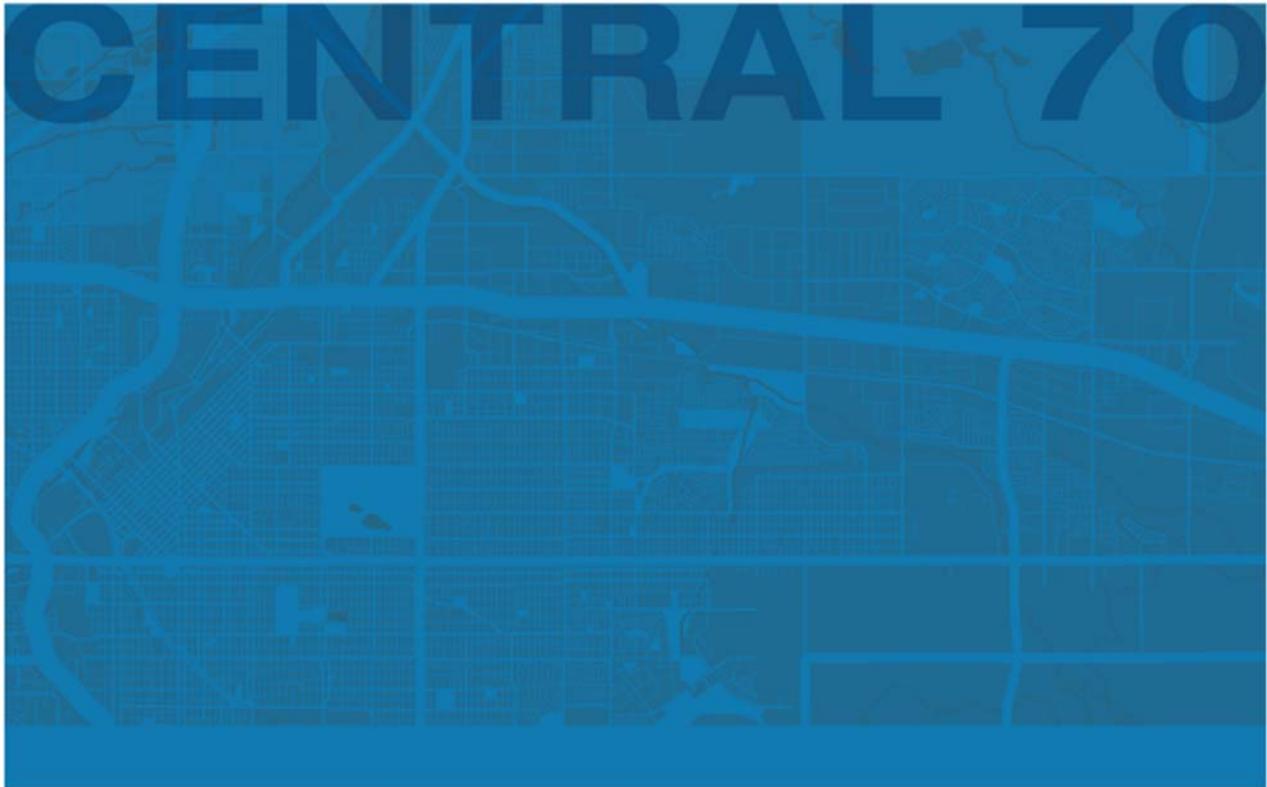
Date: 12-11-18

Fit Test Conductor Signature: John L

Date: 12-11-18

6. Project Design

6a. SSAR



July 23, 2018



Structure Survey Assessment Report AP-72A

2716 E. 46th Ave

Denver, CO 80216

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LIST OF REPORT ACRONYMS/ABBREVIATIONS

| | |
|---------------|---|
| ACMs | Asbestos Containing Materials |
| AHERA | Asbestos Hazard Emergency Response Act |
| APEC | All-Phase Environmental Consultants |
| AMS | Air Monitoring Specialist |
| CABI | Colorado Asbestos Building Inspector |
| CDOT | Colorado Department of Transportation |
| CDPHE | Colorado Department of Public Health and Environment |
| CFCs | Chlorofluorocarbons |
| CFR | Code of Federal Regulations |
| EP | Environmental Professional |
| EPA | Environmental Protection Agency |
| FAA | Flame Atomic Absorption |
| LBP | Lead Based Paint |
| LCP | Lead Containing Paint |
| mg/L | Milligrams per Liter |
| NESHAP | National Emissions Standards for Hazardous Air Pollutants |
| NVLAP | National Voluntary Laboratory Accreditation Program |
| OSHA | Occupational Safety and Health Administration |
| PCBs | Polychlorinated Biphenyls |
| PD | Project Designer |
| PEL | Permissible Exposure Limits |
| PLM | Polarized Light Microscopy |
| PPE | Personal Protective Equipment |
| ppm | Parts Per Million |
| RACM | Regulated Asbestos Building Material |
| RBM | Regulated Building Materials |
| RCRA | Resource Conservation and Recovery Act |
| RHMs | Recognized Hazardous Materials |
| SSAP | Structure Survey Assessment Plan |
| TC | Toxicity Characteristic |
| TCLP | Toxicity Characteristic Leaching Procedure |
| USEPA | U.S. Environmental Protection Agency |
| UWR | EPA Universal Waste Rule |

Tables

| | |
|---------|--|
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| Table 2 | Asbestos Containing Samples |
| Table 3 | Non-Asbestos Containing Samples |
| Table 4 | Summary of Paint Chip Laboratory Analysis for Lead |
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Figures

| | |
|----------|-----------------------------------|
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Appendices

| | |
|------------|--|
| Appendix A | Asbestos, Lead Inspector and Laboratory Certifications |
| Appendix B | Positive Asbestos & Lead Sample Material Photographs |
| Appendix C | Laboratory Results & Chain of Custody – Asbestos |
| Appendix D | Laboratory Results & Chain of Custody – Lead & TCLP |

APEC Project # 18-3066-024

Prepared for

Kiewit Meridiam Partners

Prepared by

A handwritten signature in blue ink, appearing to read "Logan Greenfield", written over a horizontal line.

Logan Greenfield, CABI & AMS #20715
VP of Field Services

Reviewed by

A handwritten signature in blue ink, appearing to read "Brandice Eslinger", written over a horizontal line.

Brandice Eslinger, EP, CABI & PD # 5494
President

1 Introduction

All-Phase Environmental Consultants Inc. APEC was contracted to complete an environmental building survey for suspect asbestos-containing materials (ACMs), lead-based paint (LBP), and regulated building material (RBM) at 2716 E. 46th Ave, Denver, CO 80216. This survey will identify the materials that need to be abated or removed prior to the future demolition activities.

Table 1 Project Details

| | |
|--|--|
| Client Name: | Kiewit Meridiam Partners |
| Site Location: | 2716 E. 46 th Ave, Denver, CO 80216 |
| Building Type | Residential House |
| Building Size | Building is approximately 1,276 square feet |
| Construction Date: | 1946 – Based on the City and County of Denver Assessor’s Records |
| Building Uses: | Residential (second house on AP-72 on the east side) |
| Types of Materials to be Disturbed/Description of Proposed Disturbances: | Client intends to demolish the structure. All building materials will be impacted. |

This Structure Survey Assessment was conducted as part of the Central 70 Project located in Denver, Colorado. This assessment was conducted in accordance with the Structure Survey Assessment Plan (SSAP), dated March 27, 2018. The SSAP, as defined in Section 23.13.2 of Schedule 17 (Environmental Requirements) of the final Central 70 Project Agreement between the Colorado Department of Transportation (CDOT) and Kiewit Meridiam Partners, identifies the procedures for completing building and structure surveys for ACMs, LBP and universal wastes or other Recognized Hazardous Materials (RHMs), as defined by the Resource Conservation and Recovery Act (RCRA); universal waste, as defined by the U.S. Environmental Protection Agency (EPA) and 6 Code of Federal Regulations (CCR) Part 273 of the Colorado Hazardous Waste Regulations; chlorofluorocarbons (CFCs), as defined by the Clean Air Act; and polychlorinated biphenyls (PCBs), as defined by the Toxic Substances Control Act.

2 Site Survey Methodology

2.1 ASBESTOS SURVEY

On June 15, 2018, APEC certified personnel Logan Greenfield, conducted an asbestos survey for demolition at 2716 E. 46th Ave, Denver, CO 80216. The asbestos survey (inspection/sampling) was completed in accordance with the SSAP and follows guidelines established under the EPA's Asbestos Hazard Emergency Response Act (AHERA) program and as required by USEPA regulation 40 Code of Federal Regulations (CFR) Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP). Bulk sampling of suspected ACMs was performed in strict accordance with AHERA sampling procedures detailed in 40 CFR 763.86. These include but aren't limited to labeling each sample, recording each sample on a chain of custody, taking a photo of the sample and recording the location on a site diagram. Demolition work could disturb materials that contain asbestos and put unprotected workers at risk, violating asbestos regulations, which are enforced by the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), the Colorado Department of Public Health and Environment (CDPHE), and the Denver County Health Department. All samples were collected and submitted to EMSL Analytical, Inc. in Denver, CO per APEC chain of custody protocol. The laboratory is a member of the National Voluntary Laboratory Accreditation Program (NVLAP) and is qualified to perform the required analysis (Appendix A). The analysis conducted was the EPA Interim Method for the Determination of Asbestos in Bulk Samples, using standard Polarized Light Microscopy (PLM) and dispersion staining as established in 40 CFR Part 763.

This inspection report and methodology complies with the CDPHE Asbestos Sampling and Report Requirements Memorandum dated February 28, 2018.

2.2 LEAD-BASED PAINT SURVEY

On June 15, 2018, APEC certified personnel Rick Ralston, conducted the LBP survey. The survey was conducted to evaluate the absence and/or presence of LBP or lead-containing paint (LCP) that will be impacted during future demolition activities. The survey consisted of reviewing and inspecting the interior, exterior and roof system of the structure for suspect LBP or LCP. The testing method was the use of a heat gun and/or scraping a portion of the paint down to the substrate (material under the paint). Proper chain of custody procedures were followed and samples were sent to EMSL Analytical, Inc. in Cinnaminson, NJ, via Fed Ex. The samples were analyzed by total lead (percent by weight) via Flame Atomic Absorption (FAA) by EPA Method 7420. EMSL is accredited under the American Industrial Hygiene Association's Environmental Lead Proficiency Analytical Testing program. LBP, according to the EPA, is defined as paint that contains lead in concentrations greater than 1.0 milligrams per square centimeter (mg/cm²) as measured with an X-ray fluorescence (XRF) or 5,000 ppm when measured by weight, or 0.5 percent (%) by weight.

A total of 7 homogeneous paint color variations of suspect LBP areas were identified. One paint chip sample was collected from each suspect homogeneous area and submitted to the laboratory for analysis. Representative photographs of LBP and/or LCP were taken and are included in the photographic log (Appendix B). The paint chip sample locations were recorded and are included on the sample location drawing (Figure 3). Descriptions of the suspect homogeneous materials and a list of the collected samples are described in the 'Findings' section.

Based on the analytical results for the 7 samples, a Toxicity Characteristic Leachate Procedure (TCLP) sample was analyzed by collecting a representative sample (approximately 105 grams) of combined suspect building materials. The sample results are located in Appendix D.

2.3 SURVEY OF SUSPECTED RBMS

On June 15, 2018, APEC personnel conducted the RBM inventory consisting of inspecting the interior, exterior and roof system. The inspection was conducted to visually identify and quantify any building materials, devices and equipment suspected of containing potentially regulated materials as they pertain to the EPA Universal Waste Rule (UWR) requirements (40 CFR, Part 273). APECs inventory review consisted of the following: potential mercury-containing thermostats/switches; fluorescent light tubes and compact fluorescent bulbs; items potentially containing polychlorinated biphenyls (PCBs) (generally ballasts found within the fluorescent light fixtures); tritium powered exit signs; smoke detectors potentially containing Americium-241; and freon-containing refrigeration systems. The survey of suspected RBMS is for use by contractors conducting the removal of items from the property. Samples of suspect RBMs are not required for this type of survey, as all determinations are made by visual means.

Although not a “regulated material”, items such as gas meters, electrical meters and electrical panels are listed with the RBM inventory. These materials will require removal and/or disconnection prior to demolition and until done so should be handled with care.

3 Findings

3.1 ASBESTOS SURVEY

A total of 51 bulk samples, including 2 duplicate samples, were collected from 15 suspect homogenous materials throughout the structure. The results of the PLM analysis are presented in Table 2 and Table 3. The following samples are positive for ACMs (i.e. present greater than 1%):

Regulated Asbestos Containing Materials (RACM)

- 2716-R1-6A, 2716-R5-6B, 2716-R6-6C, and 2716-R6-6Q - Vent wrap on 5 registers in rooms 1, 2, 5, and 6

Point Counts

Point count analysis occurs for samples with <1% of asbestos. Point count analysis was not performed due to the initial PLM analysis content exceeding 1% asbestos. The laboratory analytical report is included as Appendix C.

Duplicate Samples

For quality assurance purposes, duplicate samples are taken approximately every 20th sample, per the EPA “pink book” that is used by Colorado Regulation 8 for sampling protocol. Duplicate samples are listed as a duplicate (Q) in the sample location column of Table 2 or Table 3. Two samples were collected because a total of 49 samples were obtained, and are identified as:

- 2716-R6-6Q
- 2716-EX-12Q

3.2 LEAD-BASED PAINT SURVEY

A total of 7 homogeneous paint color variations were analyzed for the presence of LBPs and LCPs (Table 4; Figure 3). Under EPA 40 CFR Part 745, LBP is defined as any paint or surface coating that contains lead equal to or exceeding 0.5% (by weight), while LCP is defined as any paint or surface coating containing lead greater than or equal to 0.06% up to 0.5% (by weight). Caution should be taken during demolition to minimize cutting, abrading, or otherwise causing an air disturbance to this material and work must be completed in accordance with the OSHA Lead in Construction Standard (29 CFR 1926.62).

One lead sample (2716E46-R1-4L) was found to be greater than 0.06% by weight and less than 0.5% by weight and is considered LCP. One sample (2716E-46-R2-2L) was greater than 0.5% by weight and is considered LBP (Table 4). The remaining 5 samples were less than the LCP and LBP thresholds, and are considered non-lead containing paint (NLC). The laboratory analytical report is included in Appendix D.

3.2.1 TCLP LEAD ANALYTICAL RESULTS

One sample analyzed as a LCP, and one sample analyzed as a LBP; therefore, TCLP analysis of lead was performed. TCLP analysis simulates the potential for the demolished building materials to leach lead if placed in the landfill and results of the analysis determine if the materials will be considered hazardous waste. TCLP analysis was performed for landfill compliance and the Toxicity Characteristic (TC) maximum concentration is 5 milligrams per liter (mg/L). The results of the TCLP analysis is 0.68 mg/L, which is below the regulated limit and therefore not considered hazardous. The analytical report is included in Appendix D.

3.3 REGULATED BUILDING MATERIALS INVENTORY SURVEY

Several suspect RBMs were visually identified throughout the structure. RBMs that are a cause of concern, when discovered, are discussed below. A complete list of the RBMs is presented in Table 5, and selected locations of the RBMs are depicted in Figure 4.

4 Conclusions and Recommendations

4.1 ASBESTOS

Approximately 12 square feet of RACM was identified as vent wrap located on the supply vent pipes in rooms 1, 2, 5, and 6 was confirmed to be ACM (can be viewed in crawlspace as well). These materials will require abatement prior to demolition of the structure because they can easily be rendered friable.

No other ACM was identified throughout the structures; however, if additional suspect materials, not sampled during this investigation, are identified during demolition, they should either be assumed to be ACM or should be sampled prior to disturbance.

Prior to demolition activities, all friable and non-friable (that can or will be rendered friable) ACM that may be impacted during the demolition must be abated by a Colorado Certified Asbestos Abatement Contractor as required by NESHAP and the CDPHE – Air Pollution Control Division: Asbestos.

According to AHERA, EPA, and the CDPHE, materials testing at less than or equal to 1% asbestos fibers are not considered to be an ACM. However, any materials containing asbestos still need to be regulated. OSHA protocol must be followed when handling materials containing any amount of asbestos. Proper personal protective equipment (PPE) and engineering controls must be utilized if these materials will be impacted during demolition activities.

4.2 LEAD-BASED PAINT

Lead was detected at concentrations above the LCP threshold in 1 of the 7 samples and the LBP threshold in 1 of the 7 samples. The remaining 5 samples are considered non-lead containing (NLC). Although LCP was identified in the samples analyzed, the TC limit of 5 mg/L was not exceeded in the TCLP lead analysis. No lead abatement is required prior to demolition. TCLP results confirmed that the waste stream is not hazardous with respect to lead content.

While the TCLP results indicate that the waste stream is not characteristically hazardous with respect to lead content, LCP and LBP are still present in the building materials. Therefore, the contractor responsible for demolition of this structure is notified with receipt of this report of the presence or potential presence of LCP and/or LBP in the building materials that comprise the building. The contractor should also notify their employees of the presence of LCP or LBP prior to any disturbance and make the US Department of Labor OSHA publication number 3142-12R 2004 available to their workers. (“Lead in Construction”, <http://www.osha.gov/Publications/OSHA-3142.pdf>). The standards address topics such as PELs for workers, exposure assessment, protection of employees during assessment of exposure, employee notification, PPE, medical surveillance, along with other topics related to working with LCP and LBP.

4.3 REGULATED BUILDING MATERIALS

Materials found during the regulated materials inventory within the building may require special handling or disposal prior to demolition activities. If abatement is needed, APEC recommends that the asbestos contractor or general contractor selected by the client properly dispose of these regulated materials, per applicable regulations.

With regard to RBMs, if listed, it is likely that the ballasts in the fluorescent light fixtures do contain PCBs. Where a manufacturer's label is present indicating “no PCBs”, the ballast can be disposed of with

recyclable metal or with other municipal waste. During removal for disposal as part of the demolition activities, each ballast should be visually inspected for the manufacture's label indicating "no PCBs". If the label does not have this notation, the ballast should be considered PCB-containing and should be disposed of as a hazardous waste in accordance with local, state, and federal regulatory guidelines. Refrigerators and air conditioning units contain freon, which will need to be reclaimed or taken to a facility capable of this activity. Mercury containing thermostats will need to be disposed of at a facility certified to take this type of material. The contractor should also carefully remove all associated fluorescent light tubes and compact fluorescent lights and recycle or dispose of these materials according to applicable regulations.

This inspection was primarily relevant to the Federal UWR requirements under 40 CFR 273. It should be noted that contractors submitting bids for removal of the RBMs should verify quantities, conditions, and locations of all RBMs prior to bid submittals and initiating demolition activities. The contractor is also responsible for proper recycling and/or disposal of the RBMs, and should follow all federal, state and local regulations when handling these materials.

5 Limitations

This Structure Survey Assessment Report was prepared by All-Phase Environmental Consultants, Inc., at the request of and for the sole benefit of Kiewit Meridiam Partners, or any entity controlling, controlled by, or under common control with Colorado Department of Transportation. APECs certified inspectors used reasonable diligence and professional judgement to identify all suspect asbestos-containing materials, lead based paint, and regulated building materials in the property. APEC will not be held liable for property damage or any loss of property value due to the inspection. This report is not an abatement plan and is intended to be informational only; APEC will not be held responsible for the mishandling of the information contained herein.

APEC utilized destructive inspection methods in performing this survey, however accessibility may have been a limiting condition. If additional impacted suspect materials are discovered during related work for which there are no sample documentation/results, APEC recommends pursuing one of the following alternatives: Sample and analyze the discovered suspect material(s) to determine whether it contains asbestos, lead or other regulated materials; or assume the material(s) to be containing, quantify and remove on a unit cost basis.

Notwithstanding any provision to the contrary, the total liability of "All Phase Environmental Consultants, Inc.", and its employees, officers or directors be liable in contract, tort, strict liability warranty or otherwise, for any special, incidental or consequential damages, such as but not limited to, delay, disruption, loss of product, loss of anticipated profits or revenue, damages, cost, and expenses, including attorney's fees, shall not exceed the aggregate amount paid to All Phase Environmental Consultants, Inc. under this Agreement regardless of the legal theory under which such liability is imposed.

Tables

| | |
|---------|--|
| Table 2 | Asbestos Containing Samples |
| Table 3 | Non-Asbestos Containing Samples |
| Table 4 | Summary of Paint Chip Laboratory Analysis for Lead |
| Table 5 | Summary of Regulated Building Materials |

Table 2 Positive Asbestos Containing Samples

| Sample Name | Sample Location | Lab Results/ Asbestos Type | Detection Method(s) | Condition | Material Description | Material Location | NESHAP Classification | Estimated Quantity (Sq. ft.) |
|--|-----------------|-----------------------------|---------------------|-----------|----------------------|-------------------------------------|-----------------------|------------------------------|
| 2716-R1-6A | ROOM 1 | VENT WRAP 70% CHRYSOTILE | PLM | Good | VENT WRAP | REGISTERS IN ROOMS 1, 2, 5 AND 6 | RACM | 5 REGISTERS |
| 2716-R5-6B | ROOM 5 | VENT WRAP 70% CHRYSOTILE | PLM | Good | | | RACM | |
| 2716-R6-6C | ROOM 6 | VENT WRAP 70% CHRYSOTILE | PLM | Good | | | RACM | |
| 2716-R6-6Q | ROOM 6 | VENT WRAP 35% CHRYSOTILE | PLM | Good | | | RACM | |
| ND=Non-Detect PLM=Polarized Light Microscopy NA=Not Applicable RACM=Regulated Asbestos Containing Materials | | | | | | | | |

Table 3 Non-Asbestos Containing and OSHA Regulated Samples

| Sample Name | Sample Location | Lab Results/ Asbestos Type | Detection Method(s) | Condition | Material Description | Material Location | NESHAP Classification |
|-------------|-----------------|----------------------------|---------------------|-----------|----------------------|--|-----------------------|
| 2716-R1-1A | ROOM 1 | ND | PLM | Good | TEXTURED PLASTER | WALLS AND CEILING OF ROOMS 1 & 5 | NA |
| 2716-R1-1B | | ND | PLM | Good | | | NA |
| 2716-R5-1C | ROOM 5 | ND | PLM | Good | | | NA |
| 2716-R5-1D | | ND | PLM | Good | | | NA |
| 2716-R5-1E | | ND | PLM | Good | | | NA |
| 2716-R2-2A | ROOM 2 | ND | PLM | Good | TEXTURED PLASTER | WALLS ND CEILINGS OF ROOM 2 | NA |
| 2716-R2-2B | | ND | PLM | Good | | | NA |
| 2716-R2-2C | | ND | PLM | Good | | | NA |
| 2716-R4-3A | ROOM 4 | ND | PLM | Good | TEXTURED DRYWALL | WALLS AND CEILINGS OF ROOMS 3&4 | NA |
| 2716-R4-3B | | ND | PLM | Good | | | NA |
| 2716-R3-3C | ROOM 3 | ND | PLM | Good | | | NA |
| 2716-R6-4A | ROOM 6 | ND | PLM | Good | TEXTURED PLASTER | WALLS AND CEILINGS OF ROOMS 6 AND CLOSET 1 | NA |
| 2716-R6-4B | | ND | PLM | Good | | | NA |
| 2716-C1-4C | CLOSET 1 | ND | PLM | Good | | | NA |
| 2716-R2-5A | ROOM 2 | ND | PLM | Good | FLOOR TILE | FLOORS OF ROOM 2 BELOW CERAMIC | NA |
| 2716-R2-5B | | ND | PLM | Good | | | NA |
| 2716-R2-5C | | ND | PLM | Good | | | NA |
| 2716-R2-7A | ROOM 2 | ND | PLM | Good | CERAMIC TILE | FLOORS OF ROOM ,3 & 4 | NA |
| 2716-R3-7B | ROOM 3 | ND | PLM | Good | | | NA |
| 2716-R4-7C | ROOM 4 | ND | PLM | Good | | | NA |

| Sample Name | Sample Location | Lab Results/ Asbestos Type | Detection Method(s) | Condition | Material Description | Material Location | NESHAP Classification |
|-------------|-----------------|----------------------------|---------------------|-----------|----------------------|---|-----------------------|
| 2716-R7-8A | ROOM 7 | ND | PLM | Good | TEXTURED PLASTER-TF | TOP FLOOR WALLS AND CEILINGS ROOMS 7,8,CLOSET 2 & STAIRWELL | NA |
| 2716-R7-8B | | ND | PLM | Good | | | NA |
| 2716-R8-8C | ROOM 8 | ND | PLM | Good | | | NA |
| 2716-C2-8D | CLOSET 2 | ND | PLM | Good | | | NA |
| 2716-SW-8E | STAIRWELL | ND | PLM | Good | | | NA |
| 2716-R7-9A | ROOM 7 | ND | PLM | Good | GREEN LINOLEUM | FLOORS OF ROOM 7 CLOSET 2 AND THE HALLWAY UNDER THE WOOD FLOORING | NA |
| 2716-R7-9B | | ND | PLM | Good | | | NA |
| 2716-H-9C | HALLWAY | ND | PLM | Good | | | NA |
| 2716-R8-10A | ROOM 8 | ND | PLM | Good | SHEET FLOORING | FLOOR OF ROOM 8 | NA |
| 2716-R8-10B | | ND | PLM | Good | | | NA |
| 2716-R8-10C | | ND | PLM | Good | | | NA |
| 2716-EX-11A | EXTERIOR | ND | PLM | Good | BRICK/MORTAR | EXTERIOR | NA |
| 2716-EX-11B | | ND | PLM | Good | | | NA |
| 2716-EX-11C | | ND | PLM | Good | | | NA |
| 2716-EX-12A | | ND | PLM | Good | STUCCO | | NA |
| 2716-EX-12B | | ND | PLM | Good | | | NA |
| 2716-EX-12Q | | ND | PLM | Good | | | NA |
| 2716-EX-12C | | ND | PLM | Good | | | NA |
| 2716-EX-13A | | ND | PLM | Good | ROOFING 2 | | NA |
| 2716-EX-13B | | ND | PLM | Good | | | NA |
| 2716-EX-13C | | ND | PLM | Good | | | NA |

| Sample Name | Sample Location | Lab Results/ Asbestos Type | Detection Method(s) | Condition | Material Description | Material Location | NESHAP Classification |
|-------------|-----------------|----------------------------|---------------------|-----------|----------------------|-------------------|-----------------------|
| 2716-EX-14A | EXTERIOR | ND | PLM | Good | GARAGE FLASHING | EXTERIOR | NA |
| 2716-EX-14B | | ND | PLM | Good | | | NA |
| 2716-EX-14C | | ND | PLM | Good | | | NA |
| 2716-G-15A | GARAGE | ND | PLM | Good | CMU MORTAR | GARAGE | NA |
| 2716-G-15B | | ND | PLM | Good | | | NA |
| 2716-G-15C | | ND | PLM | Good | | | NA |

ND=Non-Detect
 PLM=Polarized Light Microscopy
 NA=Not Applicable

Table 4 Summary of Paint Chip Analysis for Lead

| Sample Number | Sample Location | Lead Concentration (% wt.) | Component | Paint Description | Classification |
|----------------------|------------------------|---------------------------------------|------------------|------------------------------|-----------------------|
| 2716E46-R2-1L | Room 2 | <0.0080 | Plaster | Tan | NLC |
| 2716E46-R2-2L | Room 2 | 3.3 | Plaster | Blue/Tan | LBP |
| 2716E46-R2-3L | Room 2 | <0.0080 | Plaster | Brown | NLC |
| 2716E46-R1-4L | Room 1 | 0.082 | Wood | Tan/Brown Shelac | LCP |
| 2716E46-R8-5L | Room 8 | <0.0080 | Plaster | Blue | NLC |
| 2716E46-EX-6L | Exterior | 0.0082 | Wood | Light Brown | NLC |
| 2716E46-G-7L | Garage | <0.0080 | Wood | Cream | NLC |

Table 5 Summary of Regulated Building Materials

| Room | Material | Location | Quantity Fixture/Bulbs each |
|-------------|---------------------|-----------------------|--|
| Room 2 | Fluorescent Fixture | Ceiling | 1 Fixture/2 blubs |
| Room 5 | Thermostat (Hg) | South of fireplace | 1 |
| Basement | WaterHeater | Cellar | 1 |
| Exterior | Electrical Meter | East Side of House | 1 |
| Exterior | Gas Meter | West Side of Building | 1 |
| Exterior | Breaker Box | East Side of House | 1 |

Figures

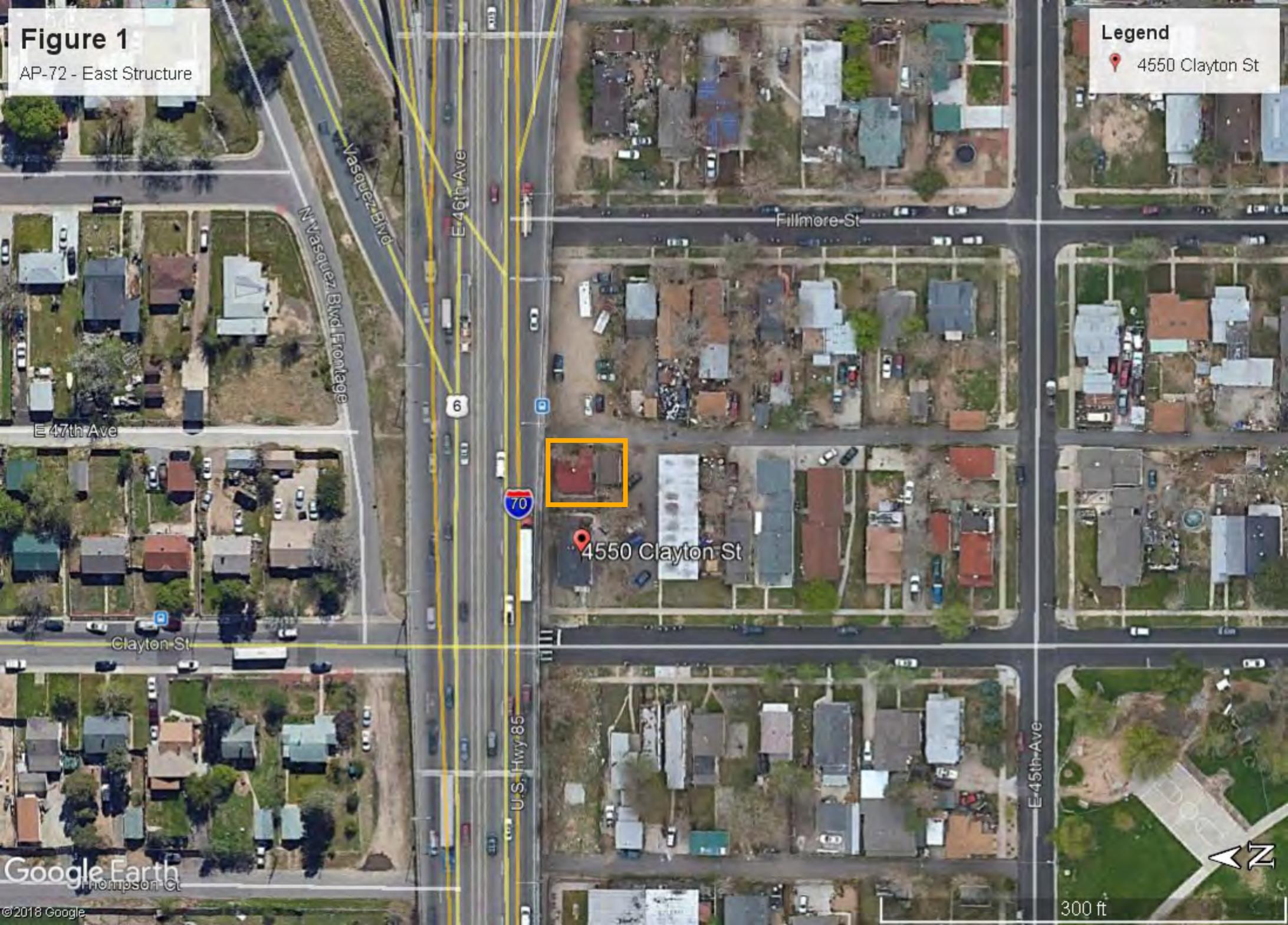
- Figure 1 Site Location
- Figure 2 Asbestos Bulk Sample Locations
- Figure 3 Lead-Based Paint Sample Locations
- Figure 4 Regulated Building Materials

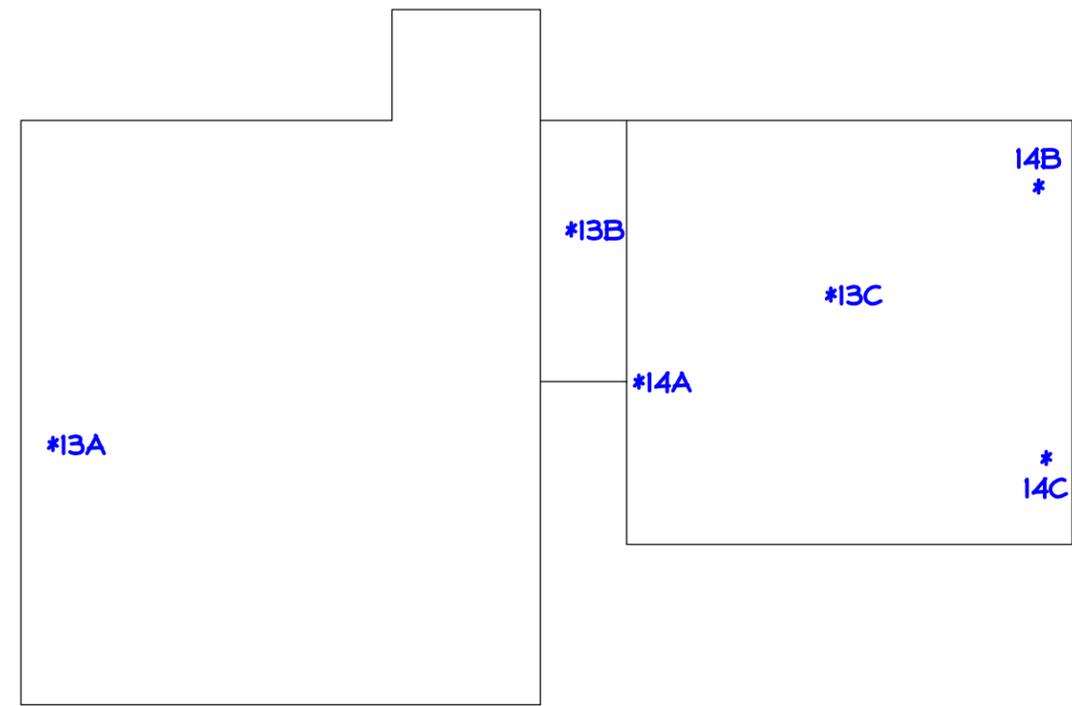
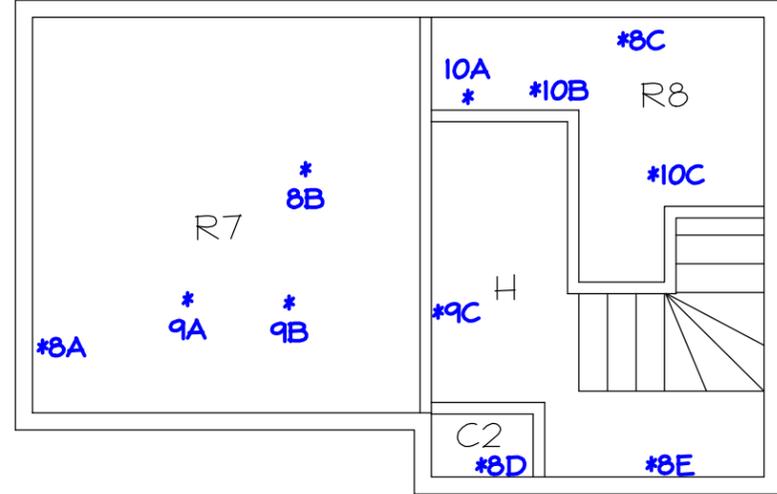
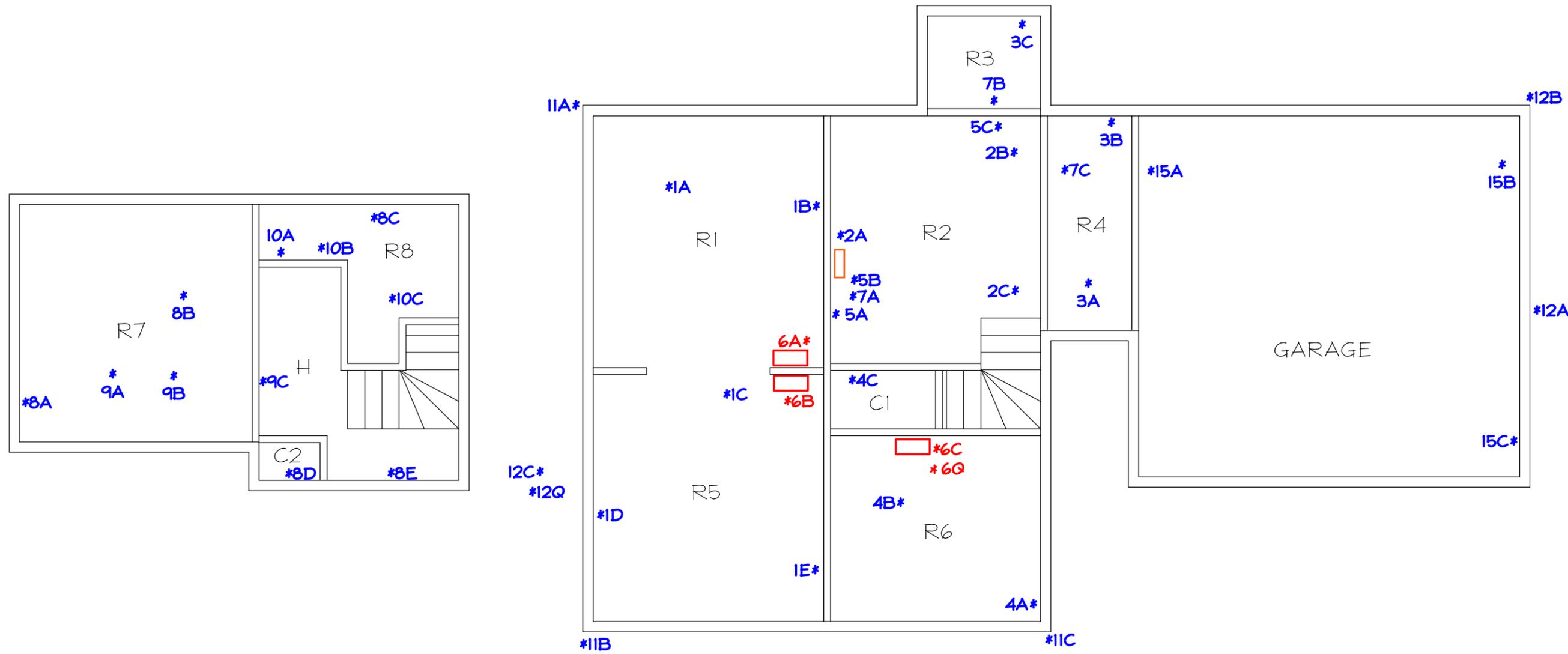
Figure 1

AP-72 - East Structure

Legend

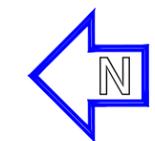
 4550 Clayton St





- RI = Room Numbers
- 4B = Asbestos Samples (Detect)
- 4B = Asbestos Samples (Non-Detect)
- Red box = Vent Boot Wrap Positive for Asbestos
- Green box = Vent Boot Wrap Negative for Asbestos

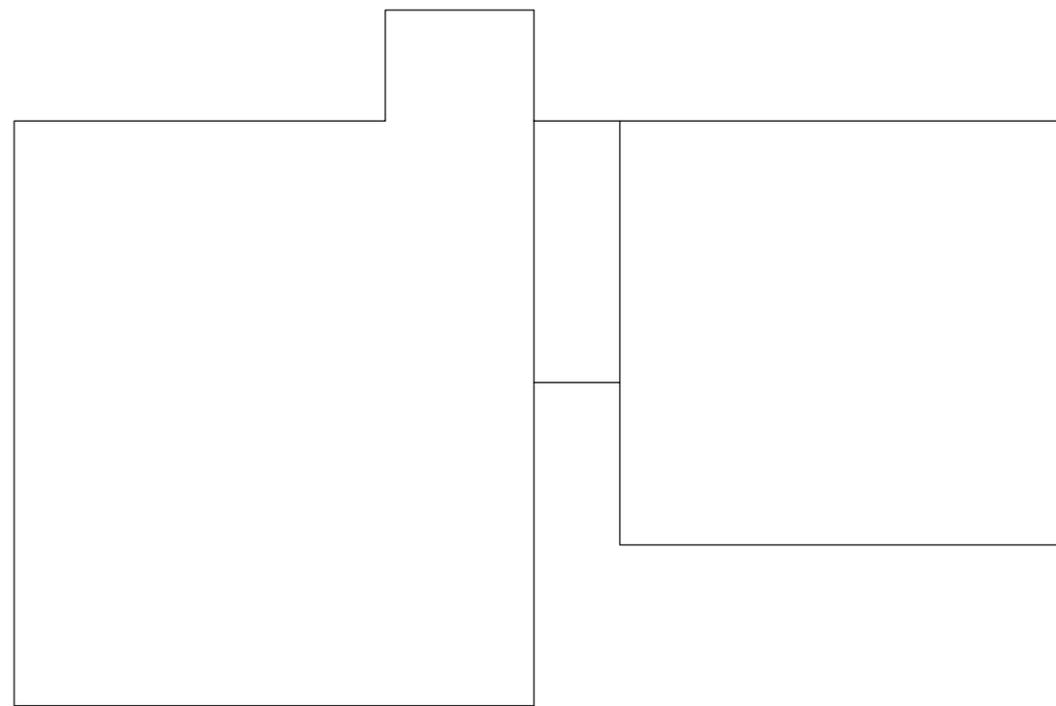
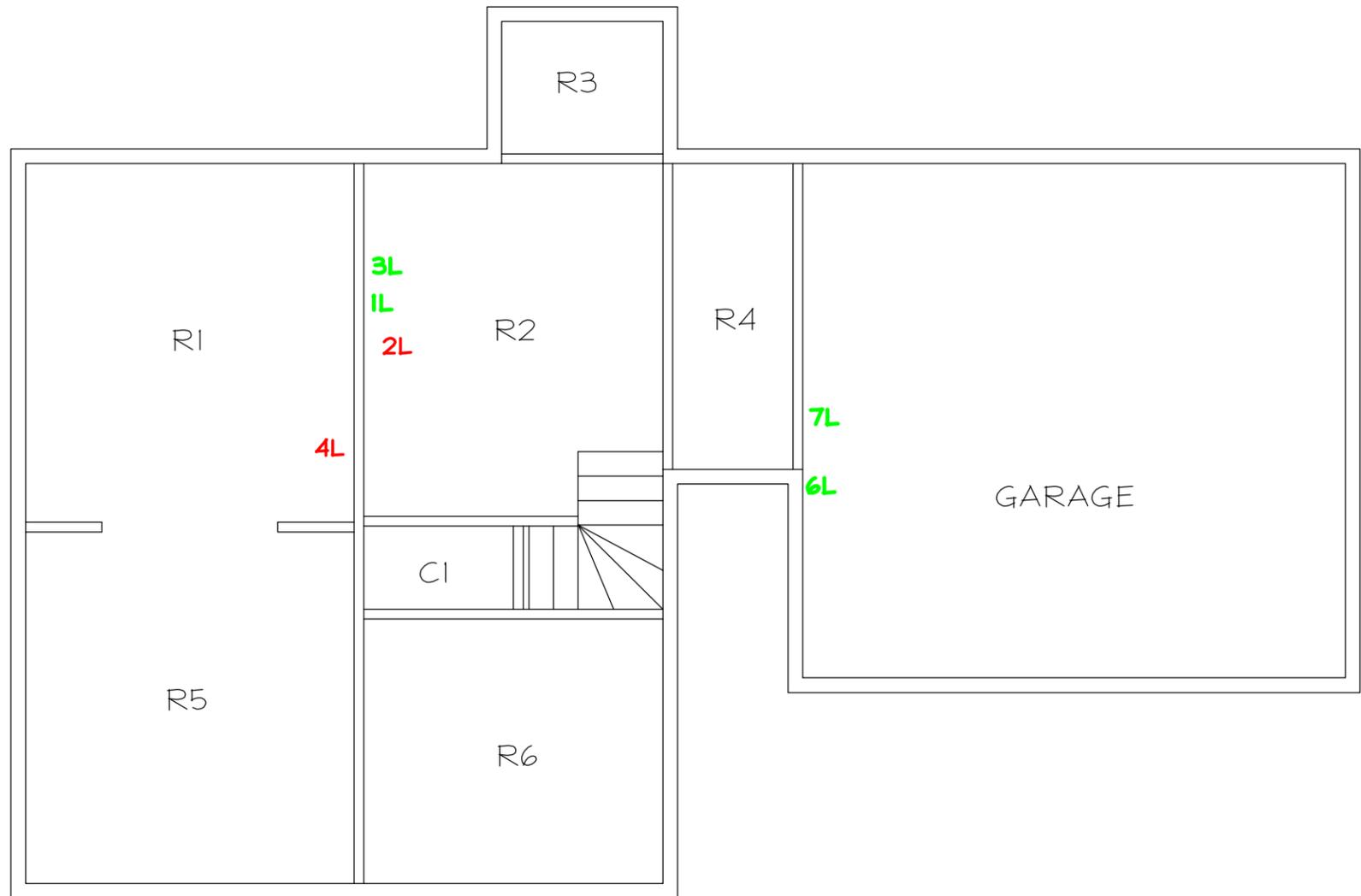
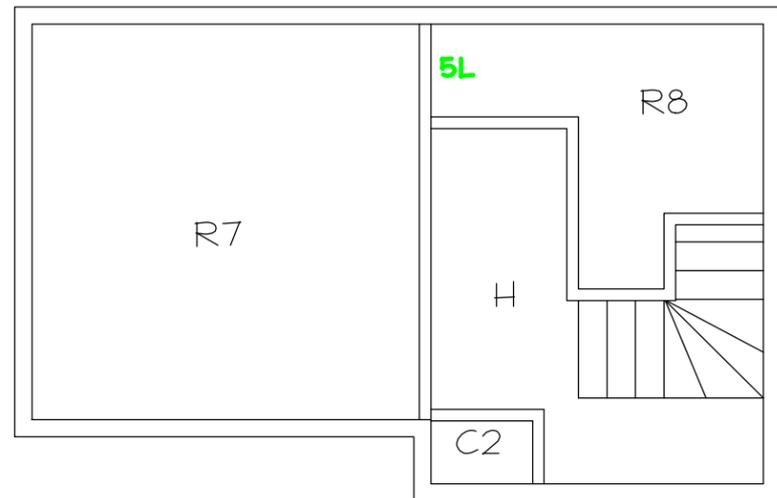
ROOF 1/8" = 1'-0"



APPROVED: B.N.E.
SCALE: 3/16" = 1'-0"

FIGURE 2 - Asbestos Bulk Sample Locations
CENTRAL 70 - Structure Survey Assessment Map
AP-72A
 2617 E. 46th Ave., Denver, CO
 June 15, 2018
 APEC #: 18-3066

ALL-PHASE
 ENVIRONMENTAL CONSULTANTS, INC.
 721 W 9TH STREET
 Pueblo, CO 81003 Ph: (719) 545-0375



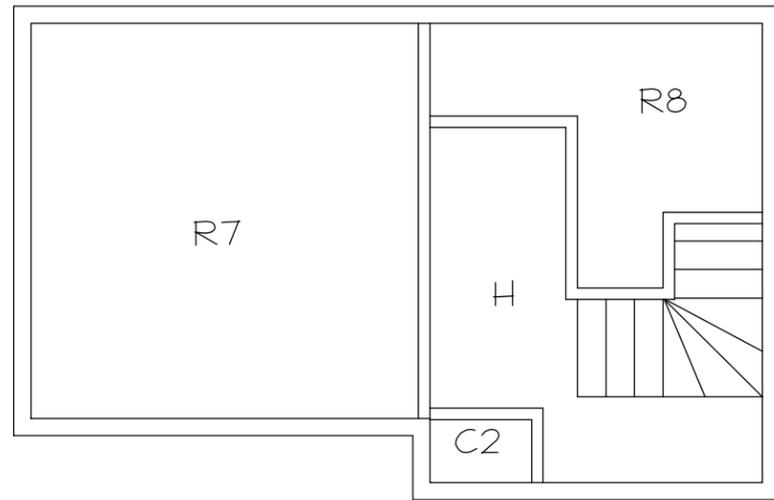
DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 3/16" = 1'-0"

- R1 = Room Numbers
- 4 = Lead Base Paint (Detect)
- 4 = Lead Containing Paint (Detect)
- 4 = Lead Base Paint (Non-Detect)

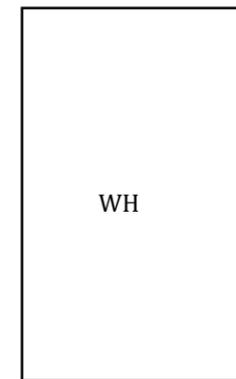
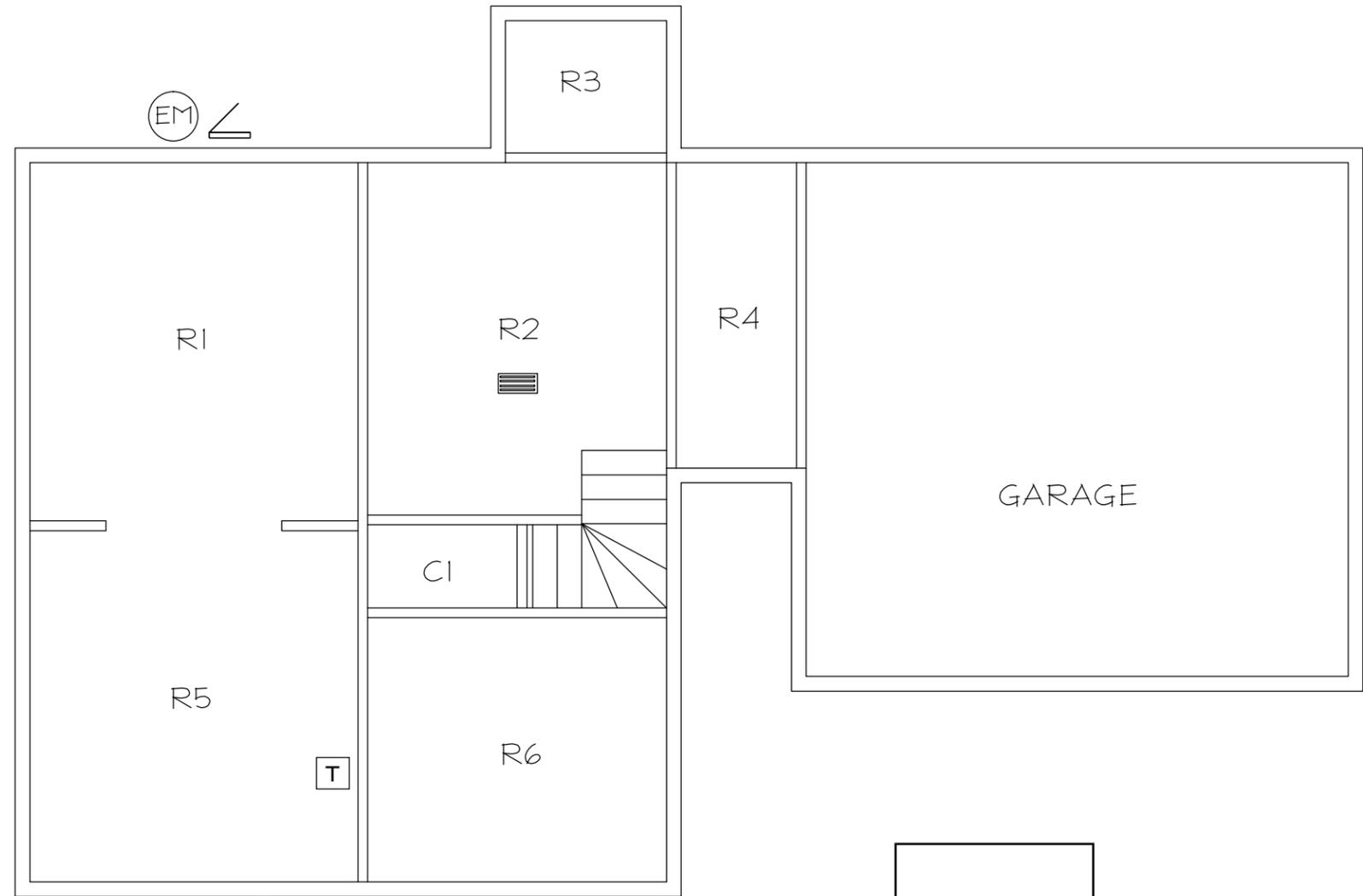
ROOF 1/8" = 1'-0"

FIGURE 3 - Lead Based Paint Sample Location
CENTRAL 70 - Structure Survey Assessment Map
AP-72A
 2617 E. 46th Ave., Denver, CO
 June 15, 2018
 APEC #: 18-3066

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 721 W 9TH STREET
 Pueblo, CO 81003 Ph: (719) 545-0375



Top Floor



Cellar

- RI = Room Numbers
-  = Breaker Panel
-  = Fluorescent Lights
-  = Thermostat
-  = Gas Meter
-  = Electric Meter
- WH = Water Heater

ROOF 1/8" = 1'-0"



DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 3/16" = 1'-0"

FIGURE 4 - Regulated Building Material
 CENTRAL 70 - Structure Survey Assessment Map
 AP-72A
 2617 E. 46th Ave., Denver, CO
 June 15, 2018
 APEC #: 18-3066



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 Pueblo, CO 81003 Ph: (719) 545-0375

A

ASBESTOS, LEAD AND LABORATORY CERTIFICATIONS



Colorado Department
of Public Health
and Environment

ASBESTOS CERTIFICATION*

This certifies that

Logan Greenfield

Certification No.: 20715

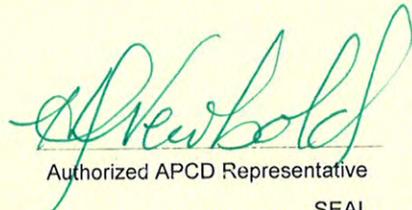
has met the requirements of 25-7-507, C.R.S. and Air Quality Control
Commission Regulation No. 8, Part B, and is hereby certified by the
state of Colorado in the following discipline:

Building Inspector*

Issued: October 18, 2017

Expires: October 18, 2018

** This certificate is valid only with the possession of a
current Division-approved training course certification
in the discipline specified above.*


Authorized APCD Representative
SEAL



Colorado Department
of Public Health
and Environment

ASBESTOS CERTIFICATION*

This certifies that

Logan Greenfield

Certification No.: 20715

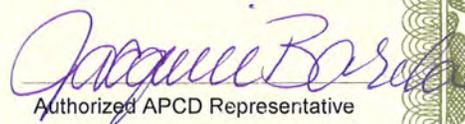
has met the requirements of 25-7-507, C.R.S. and Air Quality Control
Commission Regulation No. 8, Part B, and is hereby certified by the
state of Colorado in the following discipline:

Building Inspector*

Issued: September 13, 2018

Expires: October 18, 2019

** This certificate is valid only with the possession of a
current Division-approved training course certification
in the discipline specified above.*


Authorized APCD Representative

SEAL



1775 West 55th Avenue
Denver, CO 80221
303.410.4941
trainingchc.com



Certifies that

Logan Greenfield

20715

*Has Successfully Completed the EPA- Approved Annual Asbestos Refresher Training Course
Under Section 206 of the Toxic Substance Control Act (TSCA), Title II.*

BUILDING INSPECTOR

Course Date: September 20, 2017
Certificate No.: R17-1661-AI-CO
No. of Hours: 4
Expiration Date: September 20, 2018
Certification not valid without watermark

A handwritten signature in black ink that reads "Frank Hulce".

Frank Hulce - Instructor

A handwritten signature in black ink that reads "Danaya Benedetto".

Danaya Benedetto- Training Program Manager



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United States of America

CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to:

LOGAN GREENFIELD

In recognition of satisfactory completion of the EPA-approved annual asbestos
refresher training course under section 206 of the Toxic Substance Control Act (TSCA),

Title II entitled:

BUILDING INSPECTOR

COURSE DATE:

SEPTEMBER 12, 2018

EXPIRATION DATE

SEPTEMBER 12, 2019

COURSE HOURS:

4.0



Verify this Credential

Danaya N. Benedetto
CEO & Training Program Manager

Credential License ID:
11943552



Daniel R. Beaver
Instructor

CHC Training Certificate No.
R18-1729-AI-CO



Visit our Website



Colorado Department
of Public Health
and Environment

LEAD-BASED PAINT CERTIFICATION*

This certifies that

Richard L. Ralston

Certification No.: 9130

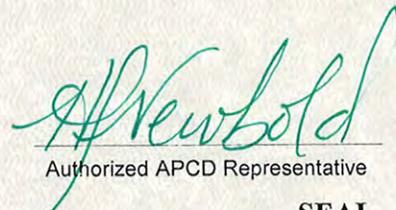
has met the requirements of 25-7-1104, C.R.S. and Air Quality Control
Commission Regulation No. 19, and is hereby certified by the state of
Colorado in the following discipline:

Risk Assessor*

Issued: February 10, 2017

Expires: February 10, 2019

** This certificate is valid only with the possession of a valid
lead-based paint training certificate in the discipline specified
above, issued by either a Colorado approved training provider,
an EPA approved training provider, or a training provider
approved by another EPA authorized program.*


Authorized APCD Representative

SEAL



1775 West 55th Avenue
Denver, CO 80221
303.410.4941
trainingchc.com



Certifies that

Richard Ralston

Has successfully completed the required training hours and passed the examination required by the Colorado Department of Public Health and Environment for:

Lead-Based Paint Risk Assessor Refresher

For the purposes of accreditation under the Colorado Department of Public Health and Environment Regulation No. 19 and other standard developed by EPA pursuant to Title IV of TSCA

Course Date: April 6, 2016
Certificate No.: R16-031-LRA-CO
No. of Hours: 8
Expiration Date: April 6, 2019
Certification not valid without watermark

Luis E. Peon

Luis Peon - Instructor

Danaya Benedetto

Danaya Benedetto - Training Program Manager

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200828-0

EMSL Analytical, Inc.
Denver, CO

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2018-04-01 through 2019-03-31

Effective Dates



Dana S. Haman
For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.

1010 Yuma Street
Denver, CO 80204
Ms. Amanda Lang
Phone: 303-740-5700
Email: alang@emsl.com
<http://www.emsl.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200828-0

Bulk Asbestos Analysis

| <u>Code</u> | <u>Description</u> |
|-------------|---|
| 18/A01 | EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples |
| 18/A03 | EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials |

Airborne Asbestos Analysis

| <u>Code</u> | <u>Description</u> |
|-------------|--|
| 18/A02 | U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A. |

For the National Voluntary Laboratory Accreditation Program



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: 100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|---|---|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: September 01, 2018 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: September 01, 2018 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: September 01, 2018 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> UNIQUE SCOPES | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

William Walsh, CIH
Chairperson, Analytical Accreditation Board

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 15: 03/30/2016

Date Issued: 08/31/2016



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: **100194**

Issue Date: 08/31/2016

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 01/18/1995

| Field of Testing (FoT) | Technology sub-type/ Detector | Method | Method Description <i>(for internal methods only)</i> |
|-----------------------------|----------------------------------|------------------|--|
| Paint | | EPA SW-846 3050B | |
| | | EPA SW-846 7000B | |
| Soil | | EPA SW-846 3050B | |
| | | EPA SW-846 7000B | |
| Settled Dust by Wipe | | EPA SW-846 3050B | |
| | | EPA SW-846 7000B | |
| Airborne Dust | | NIOSH 7082 | |
| Composited Wipes | | EPA SW-846 3050B | |
| | | EPA SW-846 7000B | |

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

B

POSITIVE ASBESTOS & LEAD SAMPLE MATERIAL PHOTOGRAPHS



Vent Wrap

Samples Represented –
2716-R1-6A
2716-R5-6B
2716-R6-6C
2716-R6-6Q



Blue/Tan - LBP

Sample Represented –
2716E46-R2-2L



Tan/Brown - LCP

Sample Represented –
2716E46-R1-4L

C

LABORATORY RESULTS & CHAIN OF CUSTODY- ASBESTOS



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EMSL Order: 221804458
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Attention: Logan Greenfield
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Fax: (719) 542-2807
Received Date: 06/19/2018 10:05 AM
Analysis Date: 06/22/2018 - 06/25/2018
Collected Date: 06/15/2018
Project: 18-3066-CDOT-A-AP72-2nd

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--|----------------------------|--|--------------|---|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-R1-1A-Texture e 221804458-0001 | Textured Plaster-R1, R5 | Gray/White Non-Fibrous Heterogeneous | | 20% Ca Carbonate 80% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R1-1A-Skim Coat 221804458-0001A | Textured Plaster-R1, R5 | White Non-Fibrous Homogeneous | | 5% Ca Carbonate 10% Gypsum 85% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R1-1A-Plaster 221804458-0001B | Textured Plaster-R1, R5 | Beige Fibrous Homogeneous | <1% Hair | 5% Ca Carbonate 15% Gypsum 80% Non-fibrous (Other) | None Detected |
| 2716-R1-1B-Texture 221804458-0002 | Textured Plaster-R1, R5 | Gray/White Non-Fibrous Heterogeneous | | 15% Ca Carbonate 85% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R1-1B-Skim Coat 221804458-0002A | Textured Plaster-R1, R5 | White Non-Fibrous Homogeneous | | 10% Ca Carbonate 20% Gypsum 70% Non-fibrous (Other) | None Detected |
| 2716-R1-1B-Plaster 221804458-0002B | Textured Plaster-R1, R5 | Tan Fibrous Homogeneous | <1% Hair | 5% Ca Carbonate 15% Gypsum 80% Non-fibrous (Other) | None Detected |
| 2716-R5-1C-Texture 221804458-0003 | Textured Plaster-R1, R5 | Gray/White Non-Fibrous Heterogeneous | | 15% Ca Carbonate 85% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R5-1C-Skim Coat 221804458-0003A | Textured Plaster-R1, R5 | White Non-Fibrous Homogeneous | | 10% Ca Carbonate 20% Gypsum 70% Non-fibrous (Other) | None Detected |
| 2716-R5-1C-Plaster 221804458-0003B | Textured Plaster-R1, R5 | Tan Fibrous Homogeneous | <1% Hair | 5% Ca Carbonate 15% Gypsum 80% Non-fibrous (Other) | None Detected |

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 06/25/2018 13:13:43



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| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--|----------------------------|---|--------------|--|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-R5-1D-Texture 221804458-0004 | Textured Plaster-R1, R5 | Tan Non-Fibrous Heterogeneous | | 10% Ca Carbonate 90% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R5-1D-Skim Coat 221804458-0004A | Textured Plaster-R1, R5 | White Non-Fibrous Heterogeneous | | 10% Ca Carbonate 90% Non-fibrous (Other) | None Detected |
| 2716-R5-1D-Plaster 221804458-0004B | Textured Plaster-R1, R5 | Gray/Beige Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R5-1E-Texture 221804458-0005 | Textured Plaster-R1, R5 | White/Black Non-Fibrous Homogeneous | | 15% Ca Carbonate 85% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R5-1E-Skim Coat 221804458-0005A | Textured Plaster-R1, R5 | White Non-Fibrous Homogeneous | | 10% Ca Carbonate 90% Non-fibrous (Other) | None Detected |
| 2716-R5-1E-Plaster 221804458-0005B | Textured Plaster-R1, R5 | Tan Non-Fibrous Homogeneous | | 5% Ca Carbonate 95% Non-fibrous (Other) | None Detected |
| 2716-R2-2A-Texture e 221804458-0006 | Texture Plaster- R2 | Gray/White Fibrous Homogeneous | | 20% Ca Carbonate 80% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R2-2A-Skim Coat 221804458-0006A | Texture Plaster- R2 | White Non-Fibrous Homogeneous | | 5% Ca Carbonate 15% Gypsum 80% Non-fibrous (Other) | None Detected |
| 2716-R2-2A-Plaster 221804458-0006B | Texture Plaster- R2 | Tan Fibrous Homogeneous | <1% Hair | 5% Ca Carbonate 15% Gypsum 80% Non-fibrous (Other) | None Detected |

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--|------------------------------|---|---------------|--|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-R2-2B-Texture 221804458-0007 | Texture Plaster- R2 | Gray/White Non-Fibrous Heterogeneous | | 20% Ca Carbonate 80% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R2-2B-Skim Coat 221804458-0007A | Texture Plaster- R2 | White Non-Fibrous Homogeneous | | 5% Ca Carbonate 15% Gypsum 80% Non-fibrous (Other) | None Detected |
| 2716-R2-2B-Plaster 221804458-0007B | Texture Plaster- R2 | Tan Fibrous Homogeneous | <1% Hair | 5% Ca Carbonate 15% Gypsum 80% Non-fibrous (Other) | None Detected |
| 2716-R2-2C-Texture 221804458-0008 | Texture Plaster- R2 | White/Black Non-Fibrous Heterogeneous | | 20% Ca Carbonate 80% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R2-2C-Skim Coat 221804458-0008A | Texture Plaster- R2 | White Non-Fibrous Homogeneous | | 10% Ca Carbonate 90% Non-fibrous (Other) | None Detected |
| 2716-R2-2C-Plaster 221804458-0008B | Texture Plaster- R2 | Tan Non-Fibrous Homogeneous | | 5% Ca Carbonate 95% Non-fibrous (Other) | None Detected |
| 2716-R4-3A-Texture e 221804458-0009 | Textured Drywall - R3, R4 | Gray/White Non-Fibrous Heterogeneous | | 20% Ca Carbonate 80% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R4-3A-Tape 221804458-0009A | Textured Drywall - R3, R4 | Tan Fibrous Homogeneous | 95% Cellulose | 5% Non-fibrous (Other) | None Detected |
| 2716-R4-3A-Joint Compound 221804458-0009B | Textured Drywall - R3, R4 | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--|------------------------------|--|---------------|---|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-R4-3A-Drywal 221804458-0009C | Textured Drywall - R3, R4 | Brown/White Fibrous Homogeneous | 15% Cellulose | 70% Gypsum 15% Non-fibrous (Other) | None Detected |
| 2716-R4-3B-Texture 221804458-0010 | Textured Drywall - R3, R4 | Gray/White Non-Fibrous Heterogeneous | | 15% Ca Carbonate 20% Gypsum 65% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R4-3B-Drywal 221804458-0010A | Textured Drywall - R3, R4 | Brown/White Fibrous Homogeneous | 15% Cellulose | 70% Gypsum 15% Non-fibrous (Other) | None Detected |
| 2716-R4-3C-Texture 221804458-0011 | Textured Drywall - R3, R4 | Tan/White Non-Fibrous Heterogeneous | | 15% Ca Carbonate 85% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R4-3C-Tape 221804458-0011A | Textured Drywall - R3, R4 | Yellow Fibrous Homogeneous | 98% Cellulose | 2% Non-fibrous (Other) | None Detected |
| 2716-R4-3C-Joint Compound 221804458-0011B | Textured Drywall - R3, R4 | White Non-Fibrous Homogeneous | | 20% Ca Carbonate 80% Non-fibrous (Other) | None Detected |
| 2716-R4-3C-Drywal 221804458-0011C | Textured Drywall - R3, R4 | White Fibrous Homogeneous | 15% Cellulose | 65% Gypsum 20% Non-fibrous (Other) | None Detected |
| 2716-R6-4A-Textur e 221804458-0012 | Textured Plaster - R6, C1 | Gray/White Non-Fibrous Heterogeneous | | 10% Ca Carbonate 90% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R6-4A-Skim Coat 221804458-0012A | Textured Plaster - R6, C1 | White Non-Fibrous Homogeneous | | 10% Ca Carbonate 20% Gypsum 70% Non-fibrous (Other) | None Detected |

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--|------------------------------|---|--------------|---|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-R6-4A-Plaster 221804458-0012B | Textured Plaster - R6, C1 | Tan Fibrous Homogeneous | <1% Hair | 5% Ca Carbonate 15% Gypsum 80% Non-fibrous (Other) | None Detected |
| 2716-R6-4B-Texture 221804458-0013 | Textured Plaster - R6, C1 | Gray/White Non-Fibrous Heterogeneous | | 20% Ca Carbonate 80% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R6-4B-Skim Coat 221804458-0013A | Textured Plaster - R6, C1 | White Non-Fibrous Homogeneous | | 10% Ca Carbonate 20% Gypsum 70% Non-fibrous (Other) | None Detected |
| 2716-R6-4B-Plaster 221804458-0013B | Textured Plaster - R6, C1 | Tan Fibrous Homogeneous | <1% Hair | 5% Ca Carbonate 15% Gypsum 80% Non-fibrous (Other) | None Detected |
| 2716-C1-4C-Texture 221804458-0014 | Textured Plaster - R6, C1 | Brown/White Non-Fibrous Heterogeneous | | 15% Ca Carbonate 85% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-C1-4C-Skim Coat 221804458-0014A | Textured Plaster - R6, C1 | White Non-Fibrous Homogeneous | | 10% Ca Carbonate 90% Non-fibrous (Other) | None Detected |
| 2716-C1-4C-Plaster 221804458-0014B | Textured Plaster - R6, C1 | Beige Non-Fibrous Homogeneous | | 5% Ca Carbonate 95% Non-fibrous (Other) | None Detected |
| 2716-R2-5A-Floor Tile 221804458-0015 | Floor Tile | Gray Non-Fibrous Homogeneous | | 35% Ca Carbonate 65% Non-fibrous (Other) | None Detected |
| 2716-R2-5A-Mastic 221804458-0015A | Floor Tile | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|---|-------------|--|--------------|---|----------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-R2-5B-Floor Tile 221804458-0016 | Floor Tile | Gray Non-Fibrous Homogeneous | | 35% Ca Carbonate 65% Non-fibrous (Other) | None Detected |
| 2716-R2-5B-Mastic 221804458-0016A | Floor Tile | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R2-5B-Leveler 221804458-0016B | Floor Tile | Gray Non-Fibrous Homogeneous | | 30% Ca Carbonate 70% Non-fibrous (Other) | None Detected |
| 2716-R2-5C-Floor Tile 221804458-0017 | Floor Tile | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R2-5C-Mastic 221804458-0017A | Floor Tile | Tan Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R1-6A 221804458-0018 | Vent Wrap | Tan Fibrous Homogeneous | | 30% Non-fibrous (Other) | 70% Chrysotile |
| 2716-R5-6B 221804458-0019 | Vent Wrap | Tan Fibrous Homogeneous | | 30% Non-fibrous (Other) | 70% Chrysotile |
| 2716-R6-6C 221804458-0020 | Vent Wrap | Tan Fibrous Homogeneous | | 30% Non-fibrous (Other) | 70% Chrysotile |
| 2716-R6-6Q-Wrap 221804458-0021 | Vent Wrap | Gray/White Non-Fibrous Homogeneous | | 65% Non-fibrous (Other) | 35% Chrysotile |
| 2716-R6-6Q-Mastic 221804458-0021A | Vent Wrap | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--|-----------------------|---|--------------|---|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-R2-7A-Ceramic Tile 221804458-0022 | Ceramic Tile/Mortar | Red/Beige Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R2-7A-Thinset 221804458-0022A | Ceramic Tile/Mortar | White Non-Fibrous Homogeneous | | 15% Ca Carbonate 85% Non-fibrous (Other) | None Detected |
| 2716-R3-7B-Ceramic Tile 221804458-0023 | Ceramic Tile/Mortar | Red/Beige Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R3-7B-Thinset 221804458-0023A | Ceramic Tile/Mortar | White Non-Fibrous Homogeneous | | 15% Ca Carbonate 85% Non-fibrous (Other) | None Detected |
| 2716-R4-7C-Ceramic Tile 221804458-0024 | Ceramic Tile/Mortar | Red/Beige Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R4-7C-Thinset 221804458-0024A | Ceramic Tile/Mortar | White Non-Fibrous Homogeneous | | 5% Ca Carbonate 95% Non-fibrous (Other) | None Detected |
| 2716-R7-8A-Skim Coat 221804458-0025 | Textured Plaster - TF | White Non-Fibrous Heterogeneous | | 100% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R7-8A-Plaster 221804458-0025A | Textured Plaster - TF | Beige Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R7-8B-Texture 221804458-0026 | Textured Plaster - TF | White Non-Fibrous Heterogeneous | | 100% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 06/25/2018 13:13:43



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221804458
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 06/19/2018 10:05 AM
Analysis Date: 06/22/2018 - 06/25/2018
Collected Date: 06/15/2018
Project: 18-3066-CDOT-A-AP72-2nd

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--|-----------------------|---|--------------|--------------------------|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-R7-8B-Skim Coat 221804458-0026A | Textured Plaster - TF | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R7-8B-Plaster 221804458-0026B | Textured Plaster - TF | Beige Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R8-8C-Texture 221804458-0027 | Textured Plaster - TF | White/Beige Non-Fibrous Heterogeneous | | 100% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-R8-8C-Skim Coat 221804458-0027A | Textured Plaster - TF | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R8-8C-Plaster 221804458-0027B | Textured Plaster - TF | Beige Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-C2-8D-Skim Coat 221804458-0028 | Textured Plaster - TF | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-C2-8D-Plaster 221804458-0028A | Textured Plaster - TF | Beige Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-SW-8E-Texture 221804458-0029 | Textured Plaster - TF | White Non-Fibrous Heterogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-SW-8E-Skim Coat 221804458-0029A | Textured Plaster - TF | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-SW-8E-Plaster 221804458-0029B | Textured Plaster - TF | Beige Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 06/25/2018 13:13:43



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Collected Date: 06/15/2018
Project: 18-3066-CDOT-A-AP72-2nd

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--|----------------|---|---------------------------|--------------------------|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-R7-9A 221804458-0030 | Green Linoleum | Black/Beige Fibrous Homogeneous | 55% Cellulose | 45% Non-fibrous (Other) | None Detected |
| 2716-R7-9B 221804458-0031 | Green Linoleum | Black/Beige Fibrous Homogeneous | 55% Cellulose | 45% Non-fibrous (Other) | None Detected |
| 2716-H-9C 221804458-0032 | Green Linoleum | Black/Beige Non-Fibrous Homogeneous | 55% Cellulose | 45% Non-fibrous (Other) | None Detected |
| 2716-R8-10A-Flooring 221804458-0033 | Sheet Flooring | Beige Fibrous Homogeneous | 45% Cellulose 5% Glass | 50% Non-fibrous (Other) | None Detected |
| 2716-R8-10A-Mastic 221804458-0033A | Sheet Flooring | Tan Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R8-10B-Flooring 221804458-0034 | Sheet Flooring | Beige Fibrous Homogeneous | 45% Cellulose 5% Glass | 50% Non-fibrous (Other) | None Detected |
| 2716-R8-10B-Mastic 221804458-0034A | Sheet Flooring | Tan Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-R8-10C-Flooring 221804458-0035 | Sheet Flooring | Beige Fibrous Homogeneous | 45% Cellulose 5% Glass | 50% Non-fibrous (Other) | None Detected |
| 2716-R8-10C-Mastic 221804458-0035A | Sheet Flooring | Tan Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-EX-11A-Brick 221804458-0036 | Brick/Mortar | Red Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 06/25/2018 13:13:43



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EMSL Order: 221804458
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Phone: (719) 250-0036
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Received Date: 06/19/2018 10:05 AM
Analysis Date: 06/22/2018 - 06/25/2018
Collected Date: 06/15/2018

Project: 18-3066-CDOT-A-AP72-2nd

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--|--------------|---|--------------|---|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-EX-11A-Morta r 221804458-0036A | Brick/Mortar | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-EX-11B-Brick 221804458-0037 | Brick/Mortar | Red Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-EX-11B-Mortar 221804458-0037A | Brick/Mortar | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-EX-11C-Brick 221804458-0038 | Brick/Mortar | Red Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-EX-11C-Mortar 221804458-0038A | Brick/Mortar | White Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-EX-12A-Stucco o 221804458-0039 | Stucco | Gray/Red Non-Fibrous Heterogeneous | | 10% Ca Carbonate 90% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-EX-12A-Concr ete 221804458-0039A | Stucco | Tan Non-Fibrous Homogeneous | | 10% Ca Carbonate 90% Non-fibrous (Other) | None Detected |
| 2716-EX-12B-Stucco o 221804458-0040 | Stucco | Gray/Variou Non-Fibrous Heterogeneous | | 15% Ca Carbonate 85% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-EX-12Q-Stucco o 221804458-0041 | Stucco | Gray/Variou Non-Fibrous Homogeneous | | 5% Ca Carbonate 95% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 06/25/2018 13:13:43



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Collected Date: 06/15/2018
Project: 18-3066-CDOT-A-AP72-2nd

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--|-------------------|--|---------------|---|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-EX-13A-Shingl e 1 221804458-0043 | Roofing - 2 layer | Red/Black Fibrous Homogeneous | 20% Glass | 15% Ca Carbonate 65% Non-fibrous (Other) | None Detected |
| 2716-EX-13A-Masti c 221804458-0043A | Roofing - 2 layer | Black Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-EX-13A-Shingl e 2 221804458-0043B | Roofing - 2 layer | Gray/Black Fibrous Homogeneous | 20% Glass | 10% Ca Carbonate 70% Non-fibrous (Other) | None Detected |
| 2716-EX-13B-Shingl e 1 221804458-0044 | Roofing - 2 layer | Red/Black Fibrous Homogeneous | 20% Glass | 10% Ca Carbonate 70% Non-fibrous (Other) | None Detected |
| 2716-EX-13B-Masti c 221804458-0044A | Roofing - 2 layer | Black Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-EX-13B-Shingl e 2 221804458-0044B | Roofing - 2 layer | Gray/Black Fibrous Homogeneous | | 70% Non-fibrous (Other) | None Detected |
| 2716-EX-13C-Shingl e 1 221804458-0045 | Roofing - 2 layer | Red/Black Fibrous Homogeneous | 15% Glass | 85% Non-fibrous (Other) | None Detected |
| 2716-EX-13C-Masti c 221804458-0045A | Roofing - 2 layer | Black Non-Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-EX-13C-Shingl e 2 221804458-0045B | Roofing - 2 layer | Gray Fibrous Homogeneous | 15% Glass | 85% Non-fibrous (Other) | None Detected |
| 2716-G-14A-Shingl e 221804458-0046 | Garage Flashing | Gray/Black Non-Fibrous Homogeneous | 20% Cellulose | 10% Ca Carbonate 70% Non-fibrous (Other) | None Detected |

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

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Received Date: 06/19/2018 10:05 AM
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Collected Date: 06/15/2018
Project: 18-3066-CDOT-A-AP72-2nd

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--|-----------------|--|---------------|---|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-G-14A-Flashin g 221804458-0046A | Garage Flashing | Gray/Black Fibrous Homogeneous | 5% Cellulose | 95% Non-fibrous (Other) | None Detected |
| 2716-G-14A-Felt 221804458-0046B | Garage Flashing | Brown/Black Fibrous Homogeneous | 60% Cellulose | 40% Non-fibrous (Other) | None Detected |
| 2716-G-14B-Shingle 221804458-0047 | Garage Flashing | Gray/Black Fibrous Homogeneous | 20% Glass | 10% Ca Carbonate 70% Non-fibrous (Other) | None Detected |
| 2716-G-14B-Flashin g 221804458-0047A | Garage Flashing | Gray/Black Fibrous Homogeneous | 5% Cellulose | 95% Non-fibrous (Other) | None Detected |
| 2716-G-14B-Felt 221804458-0047B | Garage Flashing | Brown/Black Fibrous Homogeneous | 60% Cellulose | 40% Non-fibrous (Other) | None Detected |
| 2716-G-14C-Shingle 221804458-0048 | Garage Flashing | Black Fibrous Homogeneous | 10% Glass | 90% Non-fibrous (Other) | None Detected |
| 2716-G-14C-Flashin g 221804458-0048A | Garage Flashing | Gray/Black Fibrous Homogeneous | | 100% Non-fibrous (Other) | None Detected |
| 2716-G-14C-Felt 221804458-0048B | Garage Flashing | Brown Fibrous Homogeneous | 65% Cellulose | 35% Non-fibrous (Other) | None Detected |
| 2716-G-15A 221804458-0049 | CMU Mortar | Gray/White Non-Fibrous Heterogeneous | | 20% Ca Carbonate 80% Non-fibrous (Other) | None Detected |

Inseparable paint / coating layer included in analysis

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

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Collected Date: 06/15/2018
Project: 18-3066-CDOT-A-AP72-2nd

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Description | Appearance | Non-Asbestos | | Asbestos |
|--|-------------|--|--------------|---|---------------|
| | | | % Fibrous | % Non-Fibrous | % Type |
| 2716-G-15B 221804458-0050 | CMU Mortar | Gray/White Non-Fibrous Heterogeneous | | 15% Ca Carbonate 85% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| 2716-G-15C 221804458-0051 | CMU Mortar | Gray/White Non-Fibrous Homogeneous | | 15% Ca Carbonate 85% Non-fibrous (Other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |

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Project: 18-3066-CDOT-A-AP72-2nd

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments: Report has been revised to add signature

| | | | |
|--------------------------|------------|--------------------------|----------|
| Sample Receipt Date: | 06/19/2018 | Sample Receipt Time: | 10:05 AM |
| Analysis Completed Date: | 06/25/2018 | Analysis Completed Time: | 11:39 AM |

Analyst(s):

Cassandra Schorzman PLM (18)

Gentry Catlett PLM (20)

Stuart Printz PLM (55)

Timothy Kleehammer PLM (20)

Samples Reviewed and approved by:

Amanda Lang, Asbestos Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Report amended: 08/30/2018 17:07:09 Replaces amended report from: 08/02/2018 15:26:50 Reason Code: Data Entry-Change to Appearance



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRADING

Asbestos Chain of Custody
EMSL Order Number (Lab Use Only):

221804458

Denver, CO 80204
PHONE: (303) 740-5700
FAX: (303) 741-1400

| | | | |
|--|--------------------|---|------------------------|
| Company: All-Phase Environmental Consultants, Inc. | | EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small> | |
| Street: 721 W. 9th Street | | <i>Third Party Billing requires written authorization from third party</i> | |
| City: Pueblo | State/Province: CO | Zip/Postal Code: 81003 | Country: United States |
| Report To (Name): Logan Greenfield | | Telephone #: 719-250-0036 | |
| Email Address: logan@allphaseenvironmental.com | | Fax #: | Purchase Order: |
| Project Name/Number: 18-3066-CDOT-A-AP 72 - 2nd | | Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail | |
| U.S. State Samples Taken: CO | | Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential | |

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

| | | |
|---|--|--|
| PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%) | TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking | TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique Other: <input type="checkbox"/> |
|---|--|--|

Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: Logan Greenfield Samplers Signature: *[Signature]*

| Sample # | Sample Description | Volume/Area (Air) HA # (Bulk) | Date/Time Sampled |
|------------|---------------------------|----------------------------------|----------------------|
| 2716-R1-1A | Textured Plaster - R1, R5 | | 6-15-18 |
| 2716-R1-1B | ↓ | | |
| 2716-R5-1C | | | |
| 2716-R5-1D | | | |
| 2716-R5-1E | | | |
| 2716-R2-2A | Textured Plaster - R2 | | |
| 2716-R2-2B | ↓ | | |
| 2716-R2-2C | | | |

Client Sample # (s): _____ Total # of Samples: 51

Relinquished (Client): *[Signature]* Date: 6-18-18 Time: 1100

Received (Lab): *MR* Date: 6/19/18 Time: 10:05 am

Comments/Special Instructions: EF4 7955 0259 4985



EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

221804458

Denver, CO 80204

PHONE: (303) 740-5700

FAX: (303) 741-1400

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

| Sample # | Sample Description | Volume/Area (Air) HA # (Bulk) | Date/Time Sampled |
|---------------------------------|---------------------------|----------------------------------|----------------------|
| 2716-R4-3A | Textured Drywall - R3, R4 | | 6-15-18 |
| 2716-R4-3B | ↓ | | |
| 2716-R3-3C | ↓ | | |
| 2716-R6-4A | Textured Plaster - R6, C1 | | |
| 2716-R6-4B | ↓ | | |
| 2716-C1-4C | ↓ | | |
| 2716-R2-5A | Floor Tile | | |
| 2716-R2-5B | ↓ | | |
| 2716-R2-5C | ↓ | | |
| 2716-R1-6A | Vent Wrap | | |
| 2716-R5-6B | ↓ | | |
| 2716-R6-6C | ↓ | | |
| 2716-R6-6D | ↓ | | |
| 2716-R2-7A | Ceramic tile/Mortar | | |
| 2716-R3-7B | ↓ | | |
| 2716-R4-7C | ↓ | | |
| 2716-R7-8A | Textured Plaster - TF | | |
| 2716-R7-8B | ↓ | | |
| 2716-R8-8C | ↓ | | |
| 2716-C2-8D | ↓ | | |
| 2716-SW-8E | ↓ | | |
| 2716-R7-9A | Green Linoleum | | |
| 2716-R7-9B | ↓ | | |
| 2716-H-9C | ↓ | | |
| *Comments/Special Instructions: | | | |



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

221804458

Denver, CO 80204
PHONE: (303) 740-5700
FAX: (303) 741-1400

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

| Sample # | Sample Description | Volume/Area (Air) HA # (Bulk) | Date/Time Sampled |
|---------------------------------|--------------------|----------------------------------|----------------------|
| 2716-R8-10A | Sheet Flooring | | 6-15-18 |
| 2716-R8-10B | ↓ | | |
| 2716-R8-10C | ↓ | | |
| 2716-EX-11A | Brick/Mortar | | |
| 2716-EX-11B | ↓ | | |
| 2716-EX-11C | ↓ | | |
| 2716-EX-12A | Stucco | | |
| 2716-EX-12B | ↓ | | |
| 2716-EX-12C | ↓ | | |
| 2716-EX-13A | Roofing - 2 Layer | | |
| 2716-EX-13B | ↓ | | |
| 2716-EX-13C | ↓ | | |
| 2716-G-14A | Garage Flashing | | |
| 2716-G-14B | ↓ | | |
| 2716-G-14C | ↓ | | |
| 2716-G-15A | CMU Mortar | | |
| 2716-G-15B | ↓ | | |
| 2716-G-15C | ↓ | | |
| *Comments/Special Instructions: | | | |

D

LABORATORY RESULTS & CHAIN OF CUSTODY - LEAD & TCLP



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

| | |
|-------------|-----------|
| EMSL Order: | 201806942 |
| CustomerID: | ALLP62 |
| CustomerPO: | |
| ProjectID: | |

Attn: **Richard Ralston**
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO

Phone: (719) 225-6953
 Fax: (719) 542-2807
 Received: 06/26/18 10:30 AM
 Collected: 6/15/2018

Project: **18-3066-C70-L-AP-72A**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

| <i>Client Sample Description</i> | <i>Lab ID</i> | <i>Collected</i> | <i>Analyzed</i> | <i>Weight</i> | <i>Lead Concentration</i> |
|---|----------------|------------------|-----------------|---------------|---------------------------|
| 2716E46-R2-1L Site: Room 2 - Kitchen - Tan | 201806942-0001 | 6/15/2018 | 6/28/2018 | 0.2645 g | <0.0080 % wt |
| 2716E46-R2-2L Site: Room 2 - Kitchen - Blue/Tan | 201806942-0002 | 6/15/2018 | 6/28/2018 | 0.2737 g | 3.3 % wt |
| 2716E46-R2-3L Site: Room 2 - Kitchen Wall Plaster - Brown | 201806942-0003 | 6/15/2018 | 6/28/2018 | 0.2536 g | <0.0080 % wt |
| 2716E46-R1-4L Site: Room 1 - Door From Living Room - Wood - Tan/Brown Shelac | 201806942-0004 | 6/15/2018 | 6/28/2018 | 0.2630 g | 0.082 % wt |
| 2716E46-R8-5L Site: Room 8 - Bedroom Plaster - Blue | 201806942-0005 | 6/15/2018 | 6/28/2018 | 0.2576 g | <0.0080 % wt |
| 2716E46-EX-6L Site: Ex - Wood - Light Brown | 201806942-0006 | 6/15/2018 | 6/28/2018 | 0.2555 g | 0.0082 % wt |
| 2716E46-EX-7L Site: Ex - Garage - Metal - Cream | 201806942-0007 | 6/15/2018 | 6/28/2018 | 0.2524 g | <0.0080 % wt |

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 06/29/2018 09:45:27

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201806942

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974



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LABORATORY • PRODUCTS • TRAINING

| | | | |
|---|--------------------|--|-----------------|
| Company: All-Phase Environmental Consultants, Inc | | EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments** | |
| Street: 721 West 9th Street | | Third Party Billing requires written authorization from third party | |
| City: Pueblo | State/Province: CO | Zip/Postal Code: 81003 | Country: US |
| Report To (Name): Richard Ralston | | Telephone #: 7192256953 | |
| Email Address: rick@allphaseenvironmental.com | | Fax #: 719-542-2807 | Purchase Order: |
| Project Name/Number: 18-3066-C70-L-AP- 72A | | Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email | |
| U.S. State Samples Taken: CO | | CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt | |

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

| Matrix | Method | Instrument | Reporting Limit | Check |
|---|----------------------------------|-------------------------|------------------|-------------------------------------|
| Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm (mg/kg) | SW846-7000B | Flame Atomic Absorption | 0.01% | <input checked="" type="checkbox"/> |
| Air | NIOSH 7082 | Flame Atomic Absorption | 4 µg/filter | <input type="checkbox"/> |
| | NIOSH 7105 | Graphite Furnace AA | 0.03 µg/filter | <input type="checkbox"/> |
| | NIOSH 7300M/NIOSH 7303 | ICP-OES | 0.5 µg/filter | <input type="checkbox"/> |
| Wipe* ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *if no box checked, non-ASTM Wipe assumed | SW846-7000B | Flame Atomic Absorption | 10 µg/wipe | <input type="checkbox"/> |
| | SW846-6010B or C | ICP-OES | 1.0 µg/wipe | <input type="checkbox"/> |
| TCLP | SW846-1311/7000B/SM 3111B | Flame Atomic Absorption | 0.4 mg/L (ppm) | <input type="checkbox"/> |
| | SW846-1311/SW846-6010B or C | ICP-OES | 0.1 mg/L (ppm) | <input type="checkbox"/> |
| SPLP | SW846-1312/7000B/SM 3111B | Flame Atomic Absorption | 0.4 mg/L (ppm) | <input type="checkbox"/> |
| | SW846-1312/SW846-6010B or C | ICP-OES | 0.1 mg/L (ppm) | <input type="checkbox"/> |
| TTLC | 22 CCR App. II, 7000B/7420 | Flame Atomic Absorption | 40 mg/kg (ppm) | <input type="checkbox"/> |
| | 22 CCR App. II, SW846-6010B or C | ICP-OES | 2 mg/kg (ppm) | <input type="checkbox"/> |
| STLC | 22 CCR App. II, 7000B/7420 | Flame Atomic Absorption | 0.4 mg/L (ppm) | <input type="checkbox"/> |
| | 22 CCR App. II, SW846-6010B or C | ICP-OES | 0.1 mg/L (ppm) | <input type="checkbox"/> |
| Soil | SW846-7000B | Flame Atomic Absorption | 40 mg/kg (ppm) | <input type="checkbox"/> |
| | SW846-6010B or C | ICP-OES | 2 mg/kg (ppm) | <input type="checkbox"/> |
| Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/> | SM3111B/SW846-7000B | Flame Atomic Absorption | 0.4 mg/L (ppm) | <input type="checkbox"/> |
| | EPA 200.9 | Graphite Furnace AA | 0.003 mg/L (ppm) | <input type="checkbox"/> |
| | EPA 200.7 | ICP-OES | 0.020 mg/L (ppm) | <input type="checkbox"/> |
| Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/> | EPA 200.8 | ICP-MS | 0.001 mg/L (ppm) | <input type="checkbox"/> |
| | EPA 200.9 | Graphite Furnace AA | 0.003 mg/L (ppm) | <input type="checkbox"/> |
| | EPA 200.5 | ICP-OES | 0.003 mg/L (ppm) | <input type="checkbox"/> |
| TSP/SPM Filter | 40 CFR Part 50 | ICP-OES | 12 µg/filter | <input type="checkbox"/> |
| | 40 CFR Part 50 | Graphite Furnace AA | 3.6 µg/filter | <input type="checkbox"/> |
| Other: | | | | <input type="checkbox"/> |

Name of Sampler: Rick Ralston Signature of Sampler: R.Ralston

| Sample # | Location | Volume/Area | Date/Time Sampled |
|---------------|----------------|-------------|-------------------|
| 2714E46-R2-11 | Kitchen Room 2 | TAU | 6/15/2018 |
| 2714E46-R2-2L | Kitchen Room 2 | BLUE/TAU | " |

Client Sample #s: Total # of Samples: 7

Relinquished (Client): R.Ralston Date: 6/25/2018 Time:

Received (Lab): C.E. Eslinger Date: 6/26/18 Time: 1030

Comments:
Bill To: All-Phase Environmental Consultants, Inc, 721 West 9th Street, Pueblo, CO, 81003, US
Attention: Brandice Eslinger Phone: 719-240-4690 Email: brandice@allphaseenvironmental.com Purchase Order:



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

| | |
|-------------|-----------|
| EMSL Order: | 201806930 |
| CustomerID: | ALLP62 |
| CustomerPO: | |
| ProjectID: | |

Attn: **Richard Ralston**
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO

Phone: (719) 225-6953
 Fax: (719) 542-2807
 Received: 06/26/18 10:30 AM
 Collected: 6/15/2018

Project: 18-3066-C70-L-AP-72A

Test Report: Toxicity Characteristic Leachate Procedure (1311/7000B)

| <i>Client Sample Description</i> | <i>Lab ID</i> | <i>Collected</i> | <i>Analyzed</i> | <i>Lead Concentration</i> |
|----------------------------------|----------------|------------------|-----------------|---------------------------|
| 2716R-TC-1 | 201806930-0001 | 6/15/2018 | 6/28/2018 | 0.68 mg/L |
| Site: TCLP- Throughout | | | | |

Phillip Worby, Lead Laboratory Manager
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

Initial report from 06/29/2018 10:47:18



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Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201806930

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

| | | | |
|--|--------------------|--|-----------------|
| Company : All-Phase Environmental Consultants, Inc | | EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments** | |
| Street: 721 West 9th Street | | Third Party Billing requires written authorization from third party | |
| City: Pueblo | State/Province: CO | Zip/Postal Code: 81003 | Country: US |
| Report To (Name): Richard Ralston | | Telephone #: 7192256953 | |
| Email Address: rick@allphaseenvironmental.com | | Fax #: 719-542-2807 | Purchase Order: |
| Project Name/Number: 18-3066-C70-L-AP- 72A | | Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email | |
| U.S. State Samples Taken: CO | | CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt | |

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

| Matrix | Method | Instrument | Reporting Limit | Check |
|---|----------------------------------|-------------------------|------------------|-------------------------------------|
| Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm (mg/kg) | SW846-7000B | Flame Atomic Absorption | 0.01% | <input type="checkbox"/> |
| Air | NIOSH 7082 | Flame Atomic Absorption | 4 µg/filter | <input type="checkbox"/> |
| | NIOSH 7105 | Graphite Furnace AA | 0.03 µg/filter | <input type="checkbox"/> |
| | NIOSH 7300M/NIOSH 7303 | ICP-OES | 0.5 µg/filter | <input type="checkbox"/> |
| Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *if no box checked, non-ASTM Wipe assumed | SW846-7000B | Flame Atomic Absorption | 10 µg/wipe | <input type="checkbox"/> |
| | SW846-6010B or C | ICP-OES | 1.0 µg/wipe | <input type="checkbox"/> |
| TCLP | SW846-1311/7000B/SM 3111B | Flame Atomic Absorption | 0.4 mg/L (ppm) | <input checked="" type="checkbox"/> |
| | SW846-1311/SW846-6010B or C | ICP-OES | 0.1 mg/L (ppm) | <input checked="" type="checkbox"/> |
| SPLP | SW846-1312/7000B/SM 3111B | Flame Atomic Absorption | 0.4 mg/L (ppm) | <input type="checkbox"/> |
| | SW846-1312/SW846-6010B or C | ICP-OES | 0.1 mg/L (ppm) | <input type="checkbox"/> |
| TTLC | 22 CCR App. II, 7000B/7420 | Flame Atomic Absorption | 40 mg/kg (ppm) | <input type="checkbox"/> |
| | 22 CCR App. II, SW846-6010B or C | ICP-OES | 2 mg/kg (ppm) | <input type="checkbox"/> |
| STLC | 22 CCR App. II, 7000B/7420 | Flame Atomic Absorption | 0.4 mg/L (ppm) | <input type="checkbox"/> |
| | 22 CCR App. II, SW846-6010B or C | ICP-OES | 0.1 mg/L (ppm) | <input type="checkbox"/> |
| Soil | SW846-7000B | Flame Atomic Absorption | 40 mg/kg (ppm) | <input type="checkbox"/> |
| | SW846-6010B or C | ICP-OES | 2 mg/kg (ppm) | <input type="checkbox"/> |
| Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/> | SM3111B/SW846-7000B | Flame Atomic Absorption | 0.4 mg/L (ppm) | <input type="checkbox"/> |
| | EPA 200.9 | Graphite Furnace AA | 0.003 mg/L (ppm) | <input type="checkbox"/> |
| | EPA 200.7 | ICP-OES | 0.020 mg/L (ppm) | <input type="checkbox"/> |
| Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/> | EPA 200.8 | ICP-MS | 0.001 mg/L (ppm) | <input type="checkbox"/> |
| | EPA 200.9 | Graphite Furnace AA | 0.003 mg/L (ppm) | <input type="checkbox"/> |
| | EPA 200.5 | ICP-OES | 0.003 mg/L (ppm) | <input type="checkbox"/> |
| TSP/SPM Filter | 40 CFR Part 50 | ICP-OES | 12 µg/filter | <input type="checkbox"/> |
| | 40 CFR Part 50 | Graphite Furnace AA | 3.6 µg/filter | <input type="checkbox"/> |
| Other: | | | | <input type="checkbox"/> |

Name of Sampler: R Ralston (RALSTON) Signature of Sampler: R Ralston

| Sample # | Location | Volume/Area | Date/Time Sampled |
|------------|-------------------|--------------|-------------------|
| 2716R-TC-1 | TCLP - throughout | APRUX 1/2 lb | 6/15/2018 |

Client Sample #s: - Total # of Samples: 1

Relinquished (Client): R Ralston Date: 06/25/2018 Time: 1000

Received (Lab): Centurk Date: 6/26/18 Time: 1030 EMSL

Comments:
Bill To: All-Phase Environmental Consultants, Inc, 721 West 9th Street, Pueblo, CO, 81003, US
Attention: Brandice Eslinger Phone: 719-240-4690 Email: brandice@allphaseenvironmental.com Purchase Order.

Spoke to Rick, he is aware 96 hr is the quickest TAT, 6/26/18 - uc

6b. Asbestos Abatement Project Design



**Foothills
Environmental, Inc.**

Industrial Hygiene, Safety & Environmental Services

(Version 1, 11/15/18)

**ASBESTOS ABATEMENT
PROJECT DESIGN**

SINGLE FAMILY RESIDENCE ABATEMENT PROJECT

**2716 E. 46TH AVENUE
DENVER, COLORADO 80216**

PREPARED FOR:

**JKS Industries, LLC
747 Sheridan Blvd., #9A
Lakewood, Colorado 80214**

November 15, 2018

FEI Project Number: AS18207-18

Prepared By:
Nicolas D. Vasquez, CDPHE Cert #22566
Foothills Environmental

Foothills Environmental, Inc.
11099 W. 8th Ave.
Lakewood, Colorado 80215
Phone: 303-232-2660

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APPENDIX A – Drawings

APPENDIX B – Certificates

1.0 Scope of Work

1.1 Materials Identified for Removal

The General Abatement Contractor (GAC) will be performing the removal of asbestos containing material(s) as indicated in the table below. This information was gathered from the inspection report prepared by All-Phase Environmental Consultants (APEC) dated July 23, 2018. A copy of the Inspection and this Project Design will be available onsite during the course of the project. The total amount of actual asbestos containing material to be removed on this project is estimated to be greater than 160 sf/260 lf or the equivalent of a 55 gallon drum.

The following ACM was identified for removal prior to demolition:

| Sample Name | Sample Location | Lab Results/ Asbestos Type | Detection Method(s) | Condition | Material Description | Material Location | NESHAP Classification | Estimated Quantity (Sq. ft.) |
|--|-----------------|-----------------------------|---------------------|-----------|----------------------|-------------------------------------|-----------------------|------------------------------|
| 2716-R1-6A | ROOM 1 | VENT WRAP 70% CHRYSOTILE | PLM | Good | VENT WRAP | REGISTERS IN ROOMS 1, 2, 5 AND 6 | RACM | 5 REGISTERS |
| 2716-R5-6B | ROOM 5 | VENT WRAP 70% CHRYSOTILE | PLM | Good | | | RACM | |
| 2716-R6-6C | ROOM 6 | VENT WRAP 70% CHRYSOTILE | PLM | Good | | | RACM | |
| 2716-R6-6Q | ROOM 6 | VENT WRAP 35% CHRYSOTILE | PLM | Good | | | RACM | |
| ND=Non-Detect PLM=Polarized Light Microscopy NA=Not Applicable RACM=Regulated Asbestos Containing Materials | | | | | | | | |

Regulatory asbestos abatement notification and permit from the Colorado Department of Public Health and Environment (CDPHE) will be required for this project.

1.2 Schedule

The following schedule has been proposed for the project. Phasing and dates are included in Section 1.3, Sequence of Work.

Project Start Date: November 26, 2018

Project Completion Date: November 27, 2018

1.3 Sequence of Work

The following phasing plan has been developed for the abatement. This plan was submitted with the permit application which corresponds to the drawing attached in Appendix A.

- **Phase 1** Start: November 26, 2018
Finish: November 27, 2018

Abatement of vent wrap in all designated areas will be completed in one secondary containment.

1.4 Discussion of Removal Methods

All friable asbestos-containing vent wrap, as well as asbestos contaminated materials that are located in the work area shall be removed from their installed locations via facility component removal inside a secondary containment and by utilizing wet removal methods and a combination of handheld tools.

Waste generated during removal will be gathered wrapped with 6ml thick polyethylene sheeting while wet. Work will be accomplished using CDPHE certified supervisors and workers.

Work completion includes preparation of the work area, pre-clean activities, removal and disposal of all specified ACM from the premises, final cleaning of the work area, final visual inspection, lockdown, and final clearance monitoring. The project will be considered complete when all containments and work areas have passed clearance criteria.

The following types of containments will be used during the project followed by procedures for setup and dismantling:

Secondary Containments

The GAC shall conduct abatement activities in accordance with CDPHE Regulation No. 8 in the following mandatory sequence for secondary containment:

- 1) Install critical barriers (pursuant to subsection III.I, Critical Barrier Installation)
- 2) Establish negative pressure (pursuant to Regulation No. 8 subsection III.J, Air Cleaning and Negative Pressure Requirements)

Note: The removal of non-ACM building materials and components may only take place after negative air pressure is established in the containment work area(s).

- 3) Construct the decontamination area (pursuant to subsection III.K, Decontamination Area)
- 4) Pre-clean surfaces (pursuant to subsection III.L, Pre-cleaning of Surfaces)
- 5) Cover fixed objects (pursuant to subsection III.M, Covering Fixed Objects)
- 6) Construct the containment (pursuant to subsection III.N.4, Secondary Containment)
- 7) Conduct abatement (pursuant to subsection III.V.2, Facility Component Removal)
- 8) Conduct final visual inspection (pursuant to paragraph III.P.1., Final Visual Inspection)
- 9) Conduct final clearance air monitoring (pursuant to paragraph III.P.3., Final Clearance Air Monitoring)
- 10) Conduct the tear-down (pursuant to subsection III.Q., Tear-down)

All waste from the project will be packaged in approved containers and transferred to an approved landfill for disposal. After successful air clearance of each containment the containment can be removed and all non-reusable containment materials will be packaged for disposal.

2.0 Special Conditions

2.1 Regulatory Notification and Variances

The General Abatement Contractor, (GAC) will make any required notifications to Federal and State entities regulating their work as required by applicable rules, regulations, and standards. This includes, but is not limited, to the National Emission Standards for Hazardous Air Pollutants (NESHAP) notification [notice provided to the Colorado Department of Public Health and Environment (CDPHE) with permit application]. *The abatement contractor is responsible for quantifying amounts of ACM necessary to properly complete the project.*

2.2 Project Manager Requirement

Colorado Regulation No. 8 requires a Project Manager on all asbestos abatement projects in which the amount of friable ACM to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces. A Project Manager may be required for this project, unless a waiver is requested and granted by CDPHE.

2.3 Facility Occupancy Status

During abatement activities the building will not be occupied by the former tenants but may be visited by owner personnel as well as other tradesmen.

2.4 Site Security

Entry to the regulated asbestos work area is by permission only to authorized personnel. The perimeter of the work area may be monitored during abatement by a certified Air Monitoring Specialist (AMS). Only asbestos certified/licensed personnel employed by the GAC or federal or state regulatory agency personnel and the AMS will be allowed access to the work area. A logbook will be maintained at the entrance to the work area. Everyone who enters the work area must record name, affiliation, time in and time out for each entry.

2.5 Field Changes

Minor modifications to the project design are allowed. Minor changes include but are not limited to, relocation of negative air machines, decontamination facility and waste load-out. Any modifications to the project design must be approved by the Project Designer before the changes are made.

3.0 Project Design

3.1 Standards and Primacy of Rules

The following standards will be adopted as they pertain to asbestos abatement. In any instance where adopted standards are in conflict with each other, the most stringent shall apply.

- 1) Colorado Department of Public Health and Environment Regulation #8
- 2) 5CCR 1000-10 Part B asbestos handling, transportation, and storage
- 3) 29 CFR 1926.1101, the OSHA Construction Industry Asbestos Standard
- 4) 40 CFR 61 Subpart M, EPA's NESHAP Asbestos Standard
- 5) NIOSH/OSHA/EPA –“Occupational; Safety & Health Guidance Manual for Hazardous Waste Site Activities”, Section 8-20; Heat Stress and Other Physiological Factors.

- 6) All other applicable laws, rules, and regulations, including but not limited to those relating to:
- 7 Workers' Compensation Insurance;
- 8 Liability Insurance
- 9 All contract specifications and documentation

3.2 Site Access

The GAC has access to the facility for the purpose of abatement from 6:30 AM to 5:00 PM until project completion which is projected to be 11/27/18.

3.3 Utilities Service

Access to electrical power, water and sanitary sewer is not available inside the facility. The contractor will provide utility services during the duration of the project. Any temporary utility lines running to the regulated asbestos work area shall be adequately protected from damage and abrasion from vehicle and foot traffic. All waste water shall be filtered to five (5) microns prior to discharge into a sanitary sewer.

GAC will have to provide temporary restrooms located close to the project site at approved locations for the duration of the project (to be placed in a protected area if possible).

3.4 Decontamination Facilities & Load-Out Facilities

Personnel decontamination facilities shall consist of an Equipment (Dirty) Room, Shower, and a clean room constructed in accordance with Regulation #8 III.K Decontamination Unit. If waste load out is by direct load out, it shall consist of a direct waste loadout configuration that is currently approved by CDPHE (Configuration diagram approved by CDPHE shall be attached to this Project Design if used).

All load-out and disposal procedures shall be in accordance with applicable federal, state, and local regulations and project specifications.

3.5 Critical Barriers

All critical barriers will consist of a minimum 1 layer of 6mil poly critical barrier on all, openings, and vents.

3.6 Negative Pressure Ventilation

The GAC shall maintain a negative pressure differential of -0.02 inches of water in the work areas in accordance with Regulation #8 III.J Air cleaning and Negative Pressure Requirements, until final visual and clearance air monitoring complete. The calculations in the next section take into account at least 1 backup Negative Air Machine (NAM) with HEPA filtration. The contractor will also be using generators for maintaining electrical supply. In the case of generator failure, all workers will leave the work area and seal the containment. A replacement generator will be available onsite or within an hour's time of the project for use in case of failure. Work will resume when negative pressure is restored. If negative pressure is not restored within an hour's time alternate means of electrical supply will be sought. If no supply is available, contractor will contact CDPHE and follow directions for spill response.

3.7 Air Exchange Calculations

AIR CHANGE CALCULATIONS *for a 2000 cfm negative air machine (NAM)*

$$\text{AIR CHANGES} = \frac{A}{B \times C}$$

Where: A = Work area volume in cubic feet (l x w x h)
B = 15 minutes
C = Estimated rated capacity of NAM (1,500 cfm)

Phase 1 – Vent Wrap Facility Component Removal (Secondary Containment)

$$\begin{aligned} A &= 25 \times 28 \times 9 = 6300 \text{ cubic feet} \\ B \times C &= 22,500 \\ \frac{6300}{22,500} &= 0.28 \qquad \qquad \qquad 1 \text{ NAM required} \end{aligned}$$

3.8 Containment Construction

Containments for the asbestos removal shall be constructed in accordance with CDPHE Regulation 8 and this project design. Danger signs will be posted at ingress locations, and approaches to locations, where airborne concentrations of asbestos exceed or can reasonably be expected to exceed the PEL. Signs will be posted at a distance sufficiently far from the work area to permit an employee to read the sign and take the necessary protective measures to avoid exposure. Additional signs may need to be posted following construction of workplace containment barriers.

Danger signs will include the following wording:

**DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA**

3.9 Set up of work areas

Containment Components

2”x 4”s wood studding can be used as temporary framing to support any containment systems; this may include tie wires also where needed. 1 layer of 10 mil re-enforced poly sheeting will be utilized for any exterior critical barriers, negative air machines will be installed once the poly sheeting is installed. A full 3 stage decontamination unit equipped with hot and cold water, shampoo, disposable towels, and a 2 stage water filtration unit filter all water to 5 micron, prior to being discharged into the sanitary sewer system shall be used. View ports will be installed where appropriate with a minimum of 12” x 12” Plexi™ glass and or exterior windows.

Air flow testing utilizing smoke tubes will be performed to validate air flow direction and air exchanges.

Pre-Cleaning Activities

Pre-cleaning activities will be performed in accordance with CDPHE Regulation 8. All workers performing pre-cleaning must utilize HEPA equipped vacuums and wet methods. Any prepping activities that will contact non-friable ACM, or be within arms' reach of friable ACM must be accomplished by workers utilizing PPE.

3.10 Asbestos Removal

Removal of materials containing asbestos and contaminated with asbestos shall be performed in accordance with the Colorado Department of Public Health and Environment Regulation 8 III, Abatement, Renovation and Demolition Projects and this project design.

3.11 Asbestos Spill Response

In the event of a spill or a breach of the regulated work area containment, follow procedures in Section III.T. of Regulation No. 8, which includes cleaning the area outside the regulated work area. Visible debris shall be cleaned utilizing HEPA vacuuming and wet wiping plus an additional 10 horizontal feet beyond the visible debris. All filters, mop heads, and cloths utilized during clean-up activities shall be disposed of as asbestos contaminated waste in leak tight containers.

The GAC shall have available, equipment and supplies (HEPA filtered vacuum, airless sprayer with amended water, mops, rags, polyethylene sheeting, duct tape, caution tape...) for spill response in the event of accidental spill of materials containing asbestos.

In the event of an asbestos spill outside the work area containment the GAC shall:

- Make appropriate notices based on size of spill.
- Immediately wet the spilled material and surrounding area with the airless sprayer.
- Restrict access to the spill area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Seal all openings between the contaminated and uncontaminated areas as directed by the asbestos consultant. This is to be accomplished by using polyethylene sheeting and tape.
- HEPA vacuum and wet clean all surfaces in the contaminated area.

Following completion of the above, the on sight Air Monitoring Specialist shall conduct a visual assessment of the spill area to confirm adequate cleaning has been accomplished by the GAC.

3.12 Asbestos Waste Transportation, Storage, and Disposal

All ACM waste must be wrapped in two layers of 6 mil polyethylene sheeting or double-bagged in 6 mil polyethylene bags labeled with the appropriate OSHA label for asbestos and must also bear the generator label as required by EPA's 40 CFR 61 Subpart M NESHAP Standard. Containerizing and transport of asbestos wastes shall be in accordance with applicable federal and state regulations.

The existing installed building finishes, hardscaping and landscaping shall be protected from damage by the GAC, until completion of all works.

Safety scaffolding, rubbish skips, access ladders etc. shall be approved by the client and in accordance with the current Health and Safety regulations.

GAC workers will not drag or drop packaged waste. All waste equipment and materials will be hand carried, or transported in wheeled carts to waste transport vehicles.

All packaged asbestos waste shall be directly loaded from the work area onto a 6mil polyethylene lined enclosed truck or dumpster container for disposal. No waste material may be temporarily stored in the building or the work area containment.

Waste Disposal:

All waste containers shall be transported from the permitted work areas to an approved disposal land fill by the GAC (Denver Aurora Disposal Site).

Waste Transporter:

By 5280 Waste Solutions.

3.13 Final Clean/ Final Visual Inspection Criteria

All interior surfaces of the work area will be free of visible dust and debris. The work area must pass a final visual inspection by a CDPHE Certified Air Monitoring Specialist (AMS) leaving only critical barriers in place.

3.14 Final Air Clearance Monitoring

Clearance criteria for this containment shall be in accordance with CDPHE Regulation #8, Section III.P

| For each work area within the project where the amount of ACM is: | State-Permitted Project in Non-School Building | |
|--|--|---------|
| | Minimum # of samples to clear each of the following: | |
| | Work Area | Project |
| Less than 3 square feet/3 linear feet | 1 | 5 |
| From 3 square feet/3 linear feet up to 32 square feet/50 linear feet/volume equivalent of a 55-gallon drum | 2 | 5 |
| Greater than 32 square feet/50 linear feet/volume equivalent of a 55-gallon drum up to 160 square feet/260 linear feet/volume equivalent of a 55-gallon drum | 5 | 5 |
| Greater than 160 square feet/260 linear feet/volume equivalent of a 55- gallon drum | 5 | 5 |

Upon notification that clearance monitoring levels are acceptable, the GAC may remove critical barriers and demobilize from the work area. If any samples collected for the final air test exceeds (0.01 fibers per cubic centimeter, 0.01 f/cm³ for PCM using the NIOSH Method 7400 or 70 structures per square millimeter (70 s/mm²) as analyzed by the TEM method in 40 C.F.R. Part 763 Appendix A to Subpart E (EPA 1995) the entire work area shall be re-cleaned immediately upon receipt of air test results.

Any failed abatement work area shall be re-tested and the costs associated for additional Final Clearance Air Monitoring shall be borne by the GAC at no additional cost to the Owner.

3.15 Personal Exposure Air Monitoring

The GAC shall be responsible for conducting personal exposure air-monitoring as applicable in accordance with OSHA 29 CFR 1926.1101 Asbestos Construction Standard. Contractor to supply results to personnel and will post results onsite.

3.16 Electrical Hazards Control

All electrical power utilized during the project will be on ground fault circuit interrupters (GFCI) whose power source is located outside the work area.

3.17 Emergency Egress and Fire Protection

The abatement contractor shall abide by the emergency egress rules for the facility. All contractor personnel shall receive emergency procedure orientation specific to the facility prior to initiation of abatement activities.

3.18 Fire Protection Plan

1. No items capable of initiating or sustaining combustion (lighters, matches, torches, etc.) will be allowed in containment.
2. The use of flammable liquids is not permitted.
3. Any electricity utilized must be on Ground Fault Circuit Interrupters (GFCI).
4. A minimum of one, 2A: 20B: C rated fire extinguishers will be maintained on-site. There must be available at least one 2A: 20B: C rated fire extinguisher within a maximum travel distance of 10 feet from any point in the work area.
5. Workers will be trained in the use of fire extinguishers, emergency egress plans, basic fire safety, and emergency reporting procedures prior to work beginning.
6. All emergency exits will be labeled as such with tools available for breaching poly and keys in door locks where necessary.
7. The Contractor must implement an emergency action and fire prevention plan in accordance with 29 CFR 1910.38 Employee emergency plans and fire prevention plans.

3.19 Fall Protection

The GAC shall provide proper fall protection and training for their employees when working above 6 feet of height in accordance with Occupational Safety and Health Administration 29 CFR Part 1926 Subpart M Fall Protection.

3.20 Respiratory Protection / PPE

The GAC shall provide proper respiratory protection for their employees with NIOSH approved HEPA filters during all pre-clean, abatement removal, waste load out procedures and during waste lift operations for effected employees. The GAC shall provide proof of medical fitness to wear respiratory protection and current fit testing documentation for all employees.

3.21 Work Area Protection

The GAC shall repair or replace, to the Owner's satisfaction, any damage caused by the GAC or GAC subcontractors, to existing finishes, landscaping, or other building components.

3.22 Additional PPE

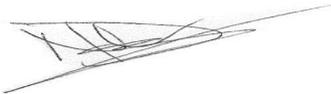
- Hooded Tyvek suits
- Safety Glasses with side shields (exception – not required when wearing a full face respirator).
- Leather Gloves
- Safety toe boots
- Fall Protection as required.
- PPE per MSDS / SDS requirements.

3.23 Pre-Abatement Document Submittal

The GAC shall provide the following submittals to the Owner's Asbestos Competent Person / Safety Department for approval prior to site mobilization.

- ✓ Copies of all worker AHERA / STATE certifications.
- ✓ Copies of all worker asbestos medical evaluations.
- ✓ Copies of all worker respirator fit tests.
- ✓ Copies of MSDS for all chemicals (spray-glue, encapsulant, surfactant etc.) that will be used
- ✓ Asbestos waste receipt / total.

Completed by:



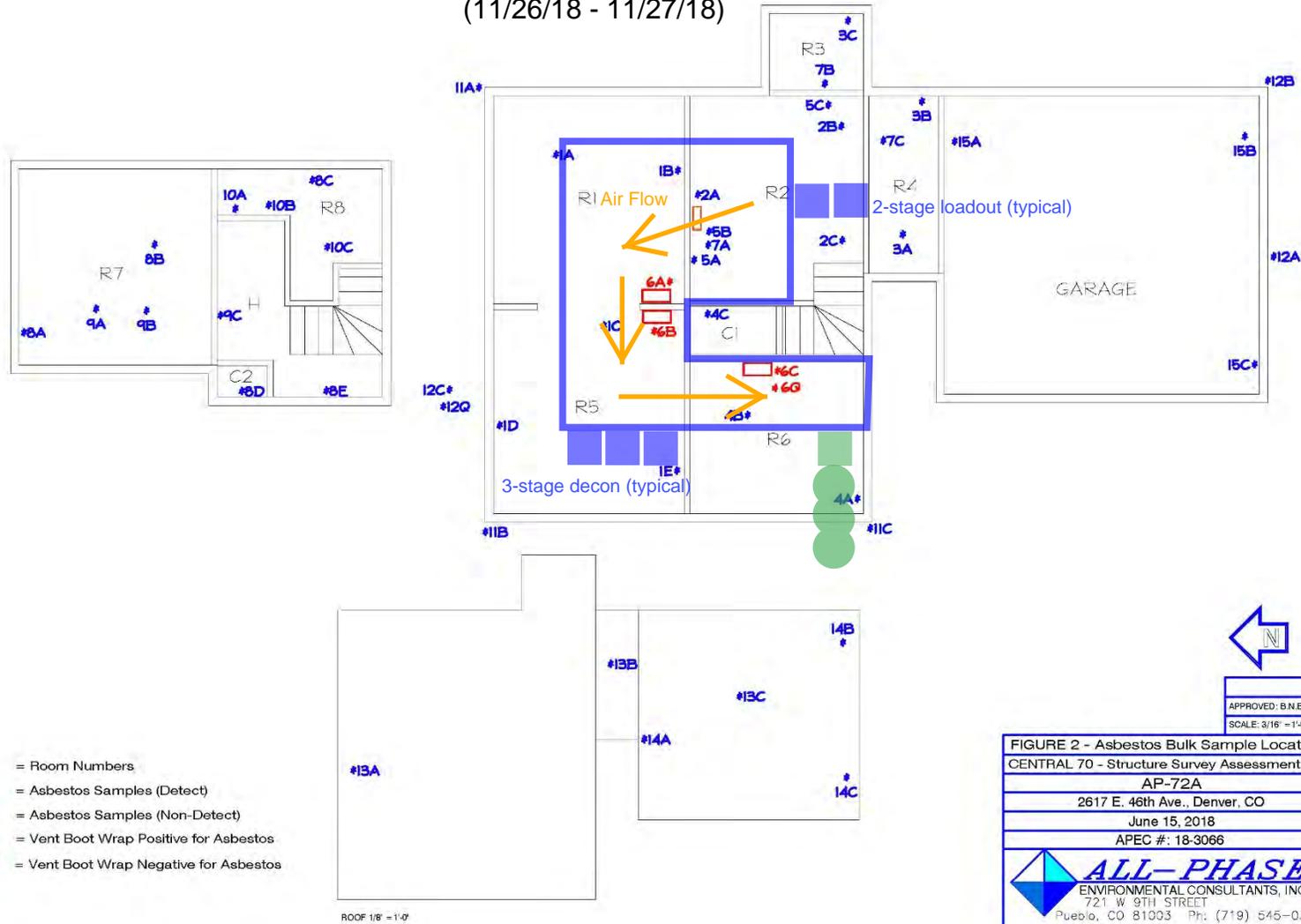
Nicolas D. Vasquez CDPHE Asbestos Project Designer Certificate # 22566

Foothills Environmental Asbestos Consulting Firm CDPHE Registration # 14925

Appendix A

Drawings

ABATEMENT IN SECONDARY CONTAINMENT
(11/26/18 - 11/27/18)



Drawing excerpted from All-Phase Inspection

| | | | |
|---|-------------------------|----------------|-------------------|
| 2716 E. 46 th AVENUE DENVER, CO (Not to Scale) | FEI Project #AS18207-18 | Date: 11/14/18 | Figure 1 |
| | Approved by: DMB | Drawn By: NDV | |
| Foothills Environmental, Inc. 11099 W 8 th Avenue Lakewood, CO 80215 | | Signature: | CDPHE CERT #22566 |

Appendix B

Certificates



Colorado Department
of Public Health
and Environment

ASBESTOS CONSULTING FIRM

This certifies that

Foothills Environmental, Inc.

Registration No.: ACF - 14925

has met the registration requirements of 25-7-507, C.R.S. and the Air Quality Control Commission Regulation No. 8, Part B, and is hereby authorized to perform asbestos consulting activities as required under Regulation No 8, Part B, in the state of Colorado.

Issued: January 30, 2018

Expires: January 30, 2019

Authorized APCD Representative

SEAL



Colorado Department
of Public Health
and Environment

ASBESTOS CERTIFICATION*

This certifies that

Nicolas Vasquez

Certification No.: 22566

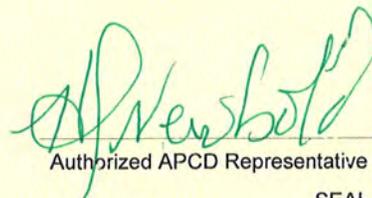
has met the requirements of 25-7-507, C.R.S. and Air Quality Control
Commission Regulation No. 8, Part B, and is hereby certified by the
state of Colorado in the following discipline:

Project Designer*

Issued: February 08, 2018

Expires: February 08, 2019

** This certificate is valid only with the possession of a
current Division-approved training course certification
in the discipline specified above.*


Authorized APCD Representative

SEAL



CHC Training
Nationwide Training & Certification Experts
www.trainingchc.com
303.412.6360
(855) 60.CERTIFY

1775 West 55th Avenue
Denver, CO 80221,
United States of America

CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to:

NICOLAS VASQUEZ

In recognition of satisfactory completion of the EPA-approved annual asbestos refresher training course under section 206 of the Toxic Substance Control Act (TSCA) and Colorado Regulation No. 8 entitled

PROJECT DESIGNER

| | |
|------------------|-------------------|
| COURSE DATE: | DECEMBER 21, 2017 |
| EXPIRATION DATE: | DECEMBER 21, 2018 |
| COURSE HOURS: | 8.0 |

Verify Credential



Danaya N. Benedetto
Co-Founder & CEO
Training Program Manager

Credential License ID: 11084750



Frank Hulce
Instructor

CHC Training Certificate No.
R17-2200-APD-CO

Visit our Website



6c. Pre-Demolition Engineering Survey

Pre-Demolition Survey
And General Demolition Plan
For
2716 East 46th Avenue
Denver, CO 80216



Engineers: Brian Lobmeyer, P.E., S.E.
Glen L. Wilson, E.I.

December 13, 2018
Project No: 180113

December 13, 2018

Stephen P. Di Nardo
JKS Industries, LLC
747 Sheridan Blvd #9A
Lakewood, CO 80214

Re: 2716 East 46th Avenue, Denver, CO 80216
Pre-Demolition Engineering Survey per OSHA 1926.850(a)
And General Demolition Plan

Date of Observation: 12/13/18

Dear Mr. Di Nardo:

At the request of JKS Industries (JKS), a representative from Anchor Engineering, Inc. (AEI) performed a site observation at the above-referenced structure on Thursday, December 13, 2018.

For the purpose of this report, there is one building on the property. The front elevation of the building faces north and is parallel to East 46th Avenue. At the time of our visit the building was vacant.

The purpose of our site visit was twofold:

1. To give an assessment of the current condition of the structure as it relates to structurally related hazards before the proposed demolition activities. OSHA 1926.850 is stated below, along with project specific applicability to the subject buildings.

- a. ***OSHA 1926.850(a):*** *Prior to permitting employees to start demolition operations, an engineering survey shall be made, by a competent person, of the structure to determine the condition of the framing, floors, and walls, and possibility of unplanned collapse of any portion of the structure. Any adjacent structure where employees may be exposed shall also be similarly checked. The employer shall have in writing evidence that such a survey has been performed.*

Project Specific Applicability: The information contained in this report satisfies the requirement of this guideline. The subcontractor shall review this report and make a copy available to all employees on the project at the pre-demolition meeting, and it shall also be included in the job site books.

- b. ***OSHA 1926.85(b):*** *When employees are required to work within a structure to be demolished which has been damaged by fire, flood, explosion, or other cause, the walls or floor shall be shored or braced.*

Project Specific Applicability: The building at 2716 East 46th Avenue, Denver, CO 80216 has not been damaged by fire, flood, explosion, or other events. Therefore, no shoring is required.

- c. ***OSHA 1926.850(c):*** *All electric, gas, water, steam, sewer, and other service lines shall be shut off, capped, or otherwise controlled, outside the building line before demolition work is started. In each case, any utility company which is involved shall be notified in advance.*

Project Specific Applicability: The contractor and subcontractor will ensure all electric, gas, water, steam, sewer, and other services are to be cut off prior to any work being performed. Contractor shall confirm with KMP through the pre-demolition check list and present the necessary information in the pre-demolition meetings.

- d. **OSHA 1926.850(d)**: *If it is necessary to maintain any power, water or other utilities during demolition, such lines shall be temporarily relocated, as necessary, and protected.*

Project Specific Applicability: The demolition of 2716 East 46th Avenue, Denver, CO 80216 does not require any power, water or other utilities.

- e. **OSHA 1926.850(e)**: *It shall also be determined if any type of hazardous chemicals, gases, explosives, flammable materials, or similarly dangerous substances have been used in any pipes, tanks, or other equipment on the property. When the presence of any such substances is apparent or suspected, testing and purging shall be performed and the hazard eliminated before demolition is started.*

Project Specific Applicability: All types of hazardous chemicals, gases, explosives, flammable materials, or other dangerous substances shall be removed from the structure prior to demolition as part of the pre cleaning phase during the environmental remediation. All materials are to be documented, manifested, and included in the environmental close out documents.

- f. **OSHA 1926.850(f)**: *Where a hazard exists from fragmentation of glass, such hazards shall be removed.*

Project Specific Applicability: All hazards from fragmentation of glass shall be removed in the normal course of demolition.

- g. **OSHA 1926.850(g)**: *Where a hazard exists to employees falling through wall openings, the opening shall be protected to a height of approximately 42 inches.*

Project Specific Applicability: No employees are permitted to enter the structure once demolition begins. Rule applies to interior demolition.

- h. **OSHA 1926.850(h)**: *When debris is dropped through holes in the floor without the use of chutes, the area onto which the material is dropped shall be completely enclosed with barricades not less than 42 inches high and not less than 6 feet back from the projected edge of the opening above. Signs, warning of the hazard of falling materials, shall be posted at each level. Removal shall not be permitted in this lower area until debris handling ceases above.*

Project Specific Applicability: No employees are permitted to enter the structure once demolition begins. Rule applies to interior demolition.

- i. **OSHA 1926.850(i)**: *All floor openings, not used as material drops, shall be covered over with material substantial enough to support the weight of any load which may be imposed. Such material shall be properly secured to prevent its accidental movement.*

Project Specific Applicability: The building is a single story structure. Refer to the demolition sequencing section of this report for further information.

OSHA 1926.850(j): *Except for the cutting of holes in floors for chutes, holes through which to drop materials, preparation of storage space, and similar necessary preparatory work, the demolition of exterior walls and floor construction shall begin at the top of the structure and proceed downward. Each story of exterior wall and floor construction shall be removed and dropped into the storage space before commencing the removal of exterior walls and floors in the story next below.*

Project Specific Applicability: The building is a single story structure. Refer to the demolition sequencing section of this report for further information.

- j. **1926.850(k):** *Employee entrances to multistory structures being demolished shall be completely protected by sidewalk sheds or canopies, or both, providing protection from the face of the building for a minimum of 8 feet. All such canopies shall be at least 2 feet wider than the building entrances or openings (1 foot wider on each side thereof), and shall be capable of sustaining a load of 150 pounds per square foot.*

Project Specific Applicability: Not applicable. Building is a single story structure. No employees are permitted to enter the structure once demolition begins.

2. Provide a general outline of the demolition procedures and sequence that is proposed to be used in the demolition of the subject structure. These outlined procedures/sequences are subject to change by AEI and/or the demolition contractor based on the observed response of the structure overall and components thereof during actual demolition operations.

No architectural or structural drawings were provided for our review.

The building is a single-story residential structure and is assumed to be founded on multi-wythe masonry foundation walls. The residence appears to be approximately 24'x27' with the long direction oriented east to west. The structure is assumed to have a full basement with multi-wythe masonry foundation walls and concrete slab on grade floor. The exterior walls appear to be multi-wythe masonry construction. The roof framing is assumed to be composed of dimension lumber framing. Additionally, there is an attached garage on the south side of the residence that is approximately 16'x22' with the long direction oriented east to west. It appears to have multi-wythe masonry exterior walls with a wood-framed roof system and an assumed concrete slab-on-grade foundation.

Existing Condition Observation

During our site visit we made visual observations around the building perimeter only. The structure was partially exposed in some areas. All of the existing structural systems that were exposed to view appeared to be in good condition. We saw no evidence of noteworthy structural distress. It is our professional opinion that the possibility of un-planned collapse of any portion of the existing structure is very low. Workers may be allowed in the building to prepare them for demolition with such activities as removal of materials or other work that does not involve activities that affect existing structural systems.

Outline of Proposed Demolition Procedures, Equipment, and Sequence

Equipment

We anticipate demolition for this structure to be completed with heavy equipment including:

- "Track-hoe" excavators capable of reaching structural elements to be demolished. Excavators may be equipped at times with buckets/grapples, hydraulically actuated demolition hammers or shears, and other custom extensions for demolition and/or holding elements for temporary stability.
- Small skid steer loaders may also be utilized from time to time during demolition

Demolition Sequencing

General

After the commencement of demolition with heavy equipment, by necessity, structural systems from this point forth will be destroyed. Demolition should proceed as fast as practical until the structure is demolished in its entirety. The lateral stability of the buildings are provided by the perimeter masonry walls.

During demolition operations, care must be taken to protect and prevent damage to any active or live utilities both above and below ground.

During demolition, water will be used to wet down the area that is being demolished prior to starting the demolition. During the demolition process a water spray will be used to minimize the fugitive particulate matter emissions. The ground will be

sprayed with water either by water truck or some type of water spray to minimize fugitive particulate emissions from haul trucks and demolition equipment.

Sequence

The building superstructure may be collapsed into the basement starting at the north or south side of the building and proceeding thru the length of the building in the north-south direction. Do not drive equipment onto the footprint of the building until the structure has been collapsed. The property is bordered on the north by East 46th Avenue and on the west by 4550 Clayton Street which is also scheduled for demolition. The adjacent alley on the east may require temporary closure during demolition procedures to prevent public endangerment. The property is bordered on the south by a private multi-unit residence which was not scheduled for demolition at the time of this report. Once the roof, wall, and floor systems are demolished, the slab on grade and foundation can be removed in any sequence.

Closing

This report constitutes an engineering review and summary of the pre-demolition condition of the structural systems of the subject buildings as well as a general outline of demolition procedures and sequencing. Note that the conclusions drawn are based on visual observations and our expertise and experience with structural engineering of building structures. Unless noted otherwise, no non-destructive or destructive testing of any kind was performed, nor was any formal engineering analysis completed. These procedures/sequences outlined herein are subject to change by AEI and/or the demolition contractor based on the observed response of the structure overall and components thereof during actual demolition operations. Anchor Engineering, Inc. shall be held harmless for damage of any kind to surrounding structures or property or for injury of any kind to any person or persons. The demolition contractor is responsible for jobsite safety. The conclusions presented in this report are based on conditions noted at the time of the observation. Commentary or recommendations regarding environmental issues are beyond the scope of this report. Should questions arise, or if further information is required regarding the content of this report, please contact our office.

Sincerely,
Anchor Engineering, Inc.

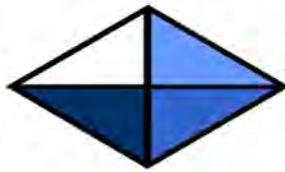
Reviewed By:



Glen L. Wilson, E.I.
Design Engineer

Brian Lobmeyer, P.E., S.E.
Project Manager

7. Asbestos Clearance Report



ALL-PHASE

ENVIRONMENTAL CONSULTANTS, INC.

December 7, 2018

Interior Air Monitoring Clearance

Re: AP-72A
2716 E. 46th Ave.
Denver, Colorado 80216

To Whom It May Concern:

On, December 6, 2018, Logan Greenfield, Colorado Certified Asbestos Building Inspector and Colorado Air Monitoring Specialist with All-Phase Environmental Consultants, Inc. (APEC), conducted Air Monitoring clearances at the above referenced Subject Property. A visual inspection and air samples were collected inside the abatement containment to ensure that the asbestos fiber counts are below the regulated standard to guarantee this area is safe to re-occupy.

The Containment Air clearance consisted of five (5) 0.08um sampling cassettes, five (5) 1-16 liter per minute pumps, along with One (1) 20-inch box fans and a one-horse power leave blower used to perform an aggressive clearance of the containment. ***All-Phase Environmental is an approved and certified Colorado Department of Public Health and Environment asbestos laboratory.***

Microscopic inspection of the above mentioned five samples were conducted in the All Phase Environmental PCM laboratory. This inspection verified that ALL the samples taken were at or below 0.01 fiber per cubic centimeter as required by the Colorado Department of Public Health and Environmental standard for a safe room or area. See Lab analytical results attached to this document.

Based on the visual inspection and the analytical results, this area is considered safe to re-occupy.

APEC will not be held responsible for the mishandling of the information contained herein, and/or any items found after December 6, 2018

Please feel free to call with any questions and or concerns.

Sincerely,

Logan Greenfield
Colorado Certified Asbestos Inspector and AMS - 20715



Colorado Department
of Public Health
and Environment

ASBESTOS LABORATORY

This certifies that

All Phase Environmental Consultants, Inc.

Registration No.: AL - 24462

has met the registration requirements of 25-7-507, C.R.S. and the Air Quality Control Commission Regulation No. 8, Part B, and is hereby authorized to perform asbestos laboratory testing activities, as required by Regulation No 8, Part B, in the state of Colorado.

Issued: April 20, 2018

Expires: April 20, 2019

Authorized APCD Representative

SEAL

8. Materials Summary

January 22, 2019

Megan Wood
 Kiewit Infrastructure Co.
 160 Inverness Drive West, Suite 110
 Englewood, CO 80112

RE: AP-72A 2716 E 46th Ave. – Summary of Removed Materials

Dear Megan,

Below is a summary of the materials removed from 2716 E 46th Ave. For more details regarding the location of the Asbestos Containing Materials (ACM) and the asbestos content please refer to the Table 2 of the All-Phase Environmental SSAR (Page 15).

| Material Removed | Quantity |
|-------------------------------------|-----------------|
| Asbestos Containing Paper Duct Wrap | 5 SF |
| Regulated Building Materials | 2 Lightbulbs |
| Clean Demolition Debris | 504,000 lbs |

If you have any questions or require further information regarding these quantities, please contact me at 303-238-0207.

Sincerely,

JKS Industries, LLC



Jeffrey Knight
 President

9. Waste Manifests

9a. Asbestos Waste Manifests



ASBESTOS NESHAP WASTE SHIPMENT RECORD

| | | | | |
|--|---|--|--|--|
| | 1. Generator ID Number N / A | 2. Page 1 of | 3. Emergency Response Phone 800-424-9300 | 4. Waste Tracking Number 2234873 |
| GENERATOR | 5. Generator's Name and Mailing Address COLORADO DEPARTMENT OF TRANSPORTATION 747 SHERIDAN BLVD UNIT 9A LAKEWOOD CO 80214 | | Generator's Project Address (if different than mailing address) AP-72 A 2716 E 46th Ave Denver, CO 80216 | |
| | Generator's Phone: (303) 512-5000 | | | |
| | 6. Transporter 1: Complete Company Name and Address 5280 WASTE SOLUTION | | Transporter Phone 714 884 1030 | |
| 7. Transporter 2: Complete Company Name and Address | | Transporter Phone | | |
| 8. Designated Disposal Facility Name and Site Address DENVER AIRPACIFIC DISPOSAL 3500 S GUN CLUB RD AURORA CO 80018 | | Facility's Phone: (720) 878-2620 | | |
| 9. Waste Shipping Name, Description, & Profile Number | | 10. Containers | | 11. Total Quantity |
| | | No. | Type | |
| 1. RQ, NA 2212, Asbestos, 9,PG III 12677500 | | | | 5 yds |
| 2. | | | | |
| 13. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80222-1530 | | Emergency Notification: CHEMTREC (800) 424-9300 24-hour Toll Free Number | | |
| 14. Bill to & Account Number: Customer Acct #: D 14925 Customer Name: JKS INDUSTRIES | | | | |
| 15. Contractor/Generator Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/ placarded, and are in all respects in proper condition for transportation and disposal according to applicable national and state governmental regulations. I hereby certify that the above described waste is not a hazardous waste as defined by federal, state or local regulations and does not contain regulated quantities of PCB's or radioactive materials. | | | | |
| Generator's/Officer's Printed/Typed Name | | Signature | | Month Day Year |
| Mia Stewart on behalf of CDOT | | | | 11 27 2018 |
| TRANSPORTER | 16. Transporter Acknowledgement of Receipt of Materials | | | |
| | Transporter 1 Printed/Typed Name | Signature | | Month Day Year |
| | JOE DORRIS | | | 12 21 18 |
| Transporter 2 Printed/Typed Name | | Signature | | Month Day Year |
| 17. Special Handling Instructions Soil originating from the above site shall not be used as daily cover or sold as clean fill. | | | | |
| 18. Discrepancy Indication Space: | | | | 19. Ticket # 3283021 |
| Initials of Person noting discrepancy | | Signature | | Date |
| | | | | |
| 20. Management Method/Location Landfill _____ Monofill <input checked="" type="checkbox"/> Location: _____ | | | | |
| 21. Designated Disposal Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 18 | | | | |
| Printed/Typed Name Alex Maurer | | Signature | | Month Day Year 12 20 18 |

9b. Regulated Building Materials (RBMs) Waste Manifests

February 14, 2018

CDOT

RE: Regulated Building Materials Manifests in SSCRs

To whom it may concern;

This letter is to explain the "SSCR Tracking Sheet" JKS Industries prepared for the purpose of documenting the manifests for the Regulated Building Materials (RMBs) included in the SSCR's.

The attached table describes how we have batched the RBM manifests per property. Here is a brief description of each grouping:

- Group 1 Independent: Each of the properties in this group has/will have its own RBM manifest. These manifests will be included in the SSCR for each property.
- Group 2 Pilot: The RBMs were removed from these properties and taken to the Pilot Truck Stop (AP-86). The reason for this, is that the volume was so low it was more cost effective just to lump them in with the Pilot RBMs than to have a separate pickup. There is no way to separate the inventories of these properties from the Pilot. The manifest will be included in the SSCR for each property.
- Group 3 Independent: The RBMs for these properties were removed and taken to the JKS warehouse for a single pick-up. A detailed inventory for these properties will be included in the individual SSCRs as well as a copy of the bulk pick-up manifest.
- Group 4 Not Required: The RBMs for these properties were removed prior to Kiewit taking possession of the property. This will be clarified in each individual SSCR for these properties.
- Group 5 AP-122: The RBMs for these properties were taken to AP-122. The reason for this, is that the volume was so low it was more cost effective just to lump them in with the RBMs at AP-122 than to have a separate pickup. An inventory for these properties were taken and will be included in the SSCR along with the RBM manifest.

An indication as to whether or not RBMs were removed will be found in the "Closeout Letter" portion of each SSCR; any additional notes or details will be found in the "Materials Summary" portion. Please reach out to us if you need any further clarification.



Stephen P. DiNardo

Director of Quality Management, JKS Industries

Regulated Building Material Groupings and Aconex Close Out #

Revision Date

2/11/2019

| ## | Parcel # | Site Address | RBM Groupings | | | | | Close Out Documents |
|----|----------|--------------------------|---------------------|---------------|-------------|----------------------|----------------|---------------------------|
| | | | Group 1 Independent | Group 2 Pilot | Group 3 JKS | Group 4 Not Required | Group 5 AP-122 | SSCR Aconex # |
| 1 | AP-8 | 4618 High St. | | | Complete | | | C70-JKS-ENV-RPT-000014 |
| 2 | AP-14 | 4617/4625 Race St. | | | Complete | | | Not Demo'd |
| 3 | AP-23 | 4639 Vine St. | | | | Not Required | | C70-JKS-PRM-RPT-000012 |
| 4 | AP-28 | 4646 Vine St. | | | Complete | | | C70-JKS-ENV-RPT-000011 |
| 5 | AP-33 | 4637 Claude Ct. | | Complete | | | | C70-JKS-ENV-RPT-000002 |
| 6 | AP-34 | 4639 Claude Ct. | | Complete | | | | C70-JKS-ENV-RPT-000003 |
| 7 | AP-42 | 4620 Claude St. | | | | Not Required | | C70-JKS-ENV-RPT-000004 |
| 8 | AP-49 | 2381 E. 46th Ave. | | | Complete | | | C70-JKS-ENV-RPT-000023 |
| 9 | AP-49A | 2381 E. 46th Ave. | | | Complete | | | C70-JKS-ENV-RPT-000018 |
| 10 | AP-53 | 4608 Josephine | | | Complete | | | C70-JKS-ENV-RPT-000015 |
| 11 | AP-68 | 4601 Clayton | | | | | Complete | SSCR in Process; Due 2/18 |
| 12 | AP-66 | 2615 E. 46th | Complete | | | | | C70-KIE-ENV-RPT-000004 |
| 13 | AP-69 | 4611 Clayton | | | Complete | | | SSCR in Process; Due 2/18 |
| 14 | AP-70 | 4621 Clayton | | | Complete | | | C70-JKS-ENV-RPT-000008 |
| 15 | AP-72 | 4550 Clayton | | | Complete | | | C70-JKS-ENV-RPT-000021 |
| | AP-72A | 2716 E 46th Ave | | | Complete | | | C70-JKS-ENV-RPT-000019 |
| 16 | AP-73 | 4600 Clayton | | | | None Found | | SSCR in Process; Due 2/18 |
| 17 | AP-74 | 4610 Clayton | | | | None Found | | C70-JKS-ENV-RPT-000025 |
| 18 | AP-75 | 4620 Clayton | | | Complete | | | C70-JKS-ENV-RPT-000009 |
| 19 | AP-77 | 4615 Fillmore | | | Complete | | | C70-JKS-ENV-RPT-000012 |
| 20 | AP-78 | 4625 Fillmore | | | Complete | | | C70-JKS-ENV-RPT-000016 |
| 21 | AP-79 | 4605 Fillmore | | | Complete | | | C70-JKS-ENV-RPT-000017 |
| 22 | AP-80 | 4610 Fillmore | | | Complete | | | C70-JKS-ENV-RPT-000024 |
| 23 | AP-81 | 4620 Fillmore | | | Complete | | | C70-JKS-ENV-RPT-000020 |
| 24 | AP-83 | 4625 Milwaukee | | | Complete | | | C70-JKS-ENV-RPT-000026 |
| 25 | AP-86 | 3223 E. 46th Ave. | Complete | | | | | C70-JKS-ENV-RPT-000007 |
| 26 | AP-86B | 3455 E. 46th Ave. | Complete | | | | | C70-JKS-ENV-RPT-000005 |
| 27 | AP-93 | 3538 E 46th Ave | | | | No Survey | | On Hold till 2020 |
| 28 | AP-93A | 3600 E 46th Ave Office | | | | No Survey | | On Hold till 2020 |
| 29 | AP-102 | 4625 Colorado Blvd | Complete | | | | | Not Demo'd |
| 30 | AP-109E | 5125 E. Stapleton N. Dr. | Complete | | | | | Demolition in Process |
| 31 | AP-109W | 5175 E. Stapleton N. Dr. | Complete | | | | | Demolition in Process |
| 32 | AP-122 | 5601 E. Stapleton N. Dr. | | | | | Complete | On Hold till 2020 |
| 33 | AP-185 | 4542 Filmore | | | Complete | | | C70-JKS-ENV-RPT-000010 |
| 34 | | Pump House | | | | | | C70-JKS-ENV-RPT-000013 |

Group Details:

Group 1: Each property will have it's own individual RBM manifest

Group 2: RBMs from these properties went to the Pilot (AP-86) and will be on the Pilot Manifest

Group 3: RBMs for these properties were picked up in bulk. Refer to materials summary for detail on the actual RBMs removed for each property

Group 4: RBMs for these properties were either removed by Kiewit ("Not Required"), none were found ("None Found"), or the survey has not been released yet ("No Survey")

Group 5: RBMs from these properties went to AP-122 and will be on the manifest for AP-122

| | | | |
|--|---|---|--|
| WASTE BILL OF LADING & CERTIFICATE OF RECYCLING | | P/U Fees: \$25 \$30 \$40 \$45 \$55 | BOL#: 27201 |
| <input checked="" type="checkbox"/> Universal Waste | 4' Jumbo ___ 4' Box ___ 8' Jumbo ___ 8' Box ___ | \$65 ___ \$75 ___ \$85 ___ \$95 ___ \$105 ___ | Shipment Date: 11/6/18 |
| <input type="checkbox"/> TSCA Waste | HID Box ___ Battery Box ___ 6.5 Gallon Pail ___ | \$115 ___ \$125 ___ \$135 ___ \$145 ___ \$155 ___ | |
| <input type="checkbox"/> Special Waste | 14-G PD ___ 30-G PD ___ 55-G PD ___ CY Bx ___ | Labor Charges: \$ ___ | Emergency Contact (877) 331-2149 Extension 4 |
| Generator Of Waste: | 95-G PD ___ 55-G SD ___ 85-G SD ___ GL Box ___ | Off Spec. Charge: \$ ___ | |
| Name: | Bill To: <u>TKS Inc</u> | Name: <u>TKS Industries</u> | |
| Address: | Address: <u>747 Sheridan Blvd.</u> | Address: <u>747 Sheridan Blvd.</u> | |
| City, State, Zip: | City, State, Zip: <u>Lakewood Co. 80214</u> | City, State, Zip: <u>Lakewood Co. 80214</u> | |
| Contact: | Contact: <u>Jeff Knight</u> | Contact: <u>Jeff Knight</u> | |
| Phone: | Phone: <u>720-402-4410</u> | Phone: <u>720-402-4410</u> | |
| Fax: | Fax: | Fax: | |
| PO# | PO# | PO# | |
| Job# | Job# | Job# | |

| | |
|--|--|
| WASTE BROKERAGE FACILITY: | EPA ID#: COR000231449 |
| <input checked="" type="checkbox"/> R8E, LLC | Destination Facility for Universal Waste |
| 4810 Newport Street | Large Quantity Handler of Universal Waste |
| Commerce City Colorado 80033-2244 | Hazardous Waste Transporter/Transfer Facility |
| (p) 303-424-4887 (f) 303-424-9193 | Used Oil Transporter/Transfer Facility |
| Email: Mike@R8Enviro.com | US DOT #: 050108 550 051Q HMP-20746 |
| www.R8Enviro.com | US DOT #1781660 CO TSCA - EPA Approved PCB Handler |

| Container | Waste Common Name | DOT Description | Total Quantity | Unit / Wt. Volume |
|-----------|--|---|----------------|-------------------|
| 2 CF | 4' & UNDER FLUORESCENT LAMP/S RECYCLING | Non-DOT Regulated (per 49 CFR 173.164(e)) | | |
| | 5' & OVER FLUORESCENT LAMP/S RECYCLING | Non-DOT Regulated (per 49 CFR 173.164(e)) | 12 | ea |
| | UTUBE FLUORESCENT LAMP/S RECYCLING | Non-DOT Regulated (per 49 CFR 173.164(e)) | | |
| | CIRCULAR FLUORESCENT LAMP/S RECYCLING | Non-DOT Regulated (per 49 CFR 173.164(e)) | | |
| 1 CF | COMPACT FLUORESCENT LAMP/S RECYCLING | Non-DOT Regulated (per 49 CFR 173.164(e)) | 49 | ea |
| | HID MERCURY/HALIDE/SODIUM LAMP/S RECYCLING | Non-DOT Regulated (per 49 CFR 173.164(e)) | 21 | ea |
| | SHIELD/COATED/GROOVED LAMP/S RECYCLING | Non-DOT Regulated (per 49 CFR 173.164(e)) | | |
| | INCANDESCENT LAMP/S RECYCLING | Non-DOT Regulated (per 49 CFR 173.164(e)) | 36 | ea |
| | UV/ARC/IGNITRON LAMP/S RECYCLING | Non-DOT Regulated (per 49 CFR 173.164(e)) | | |
| | BROKEN LAMP/S RECYCLING | Non-DOT Regulated (per 49 CFR 173.164(e)) | | |
| | CRUSHED FLUORESCENT LAMP/S RECYCLING (processed) | Non-DOT Regulated (per 49 CFR 173.164(e)) | | |
| | PCB WASTE RECYCLE/INCINERATION/MICROENCAP | RQ, UN3432, Polychlorinated biphenyls, Solid, 9, PGIII, ERG#171 | | |
| | NON-PCB BALLAST RECYCLE/MICROENCAPSULATION | Non-RCRA / Non-DOT Regulated Waste | | |
| | ESCRAP RECYCLING | Non-DOT Regulated | 110 | P |
| | MERCURY DEVICE RECYCLING | UN3506, Mercury Contained in Manufactured Articles, 8 (6.1), PGIII, ERG#172 | | |
| | LEAD ACID BATTERY RECYCLING | UN2794, Batteries, Wet Filled w/ Acid, 8, PGIII, ERG#154 | | |
| | ALKALINE BATTERY RECYCLING | Batteries, Dry, sealed, n.o.s. Specail Provision 130 | | |
| | NICKEL (Ni-Cad) BATTERY RECYCLING | Batteries, Dry, sealed, n.o.s. Specail Provision 130 | | |
| | LITHIUM METAL BATTERY RECYCLING - DOT 173.185(d) | UN3090, Lithium Batteries, 9, PGII, ERG#138 | | |
| | LITHIUM Ion BATTERY RECYCLING - DOT 173.185(d) | UN3480, Lithium Batteries, 9, PGII, ERG#138 | | |
| | WASTE OIL RECYCLING | Special Waste Liquid | 1 | GAZ |
| | WASTE GLYCOL RECYCLING | Special Waste Liquid | | |
| | WASTE AEROSOLS | UN1950, Aerosols, Flammable, 2.1, ERG#126 | | |
| 71 GALLON | WASTE LATEX PAINT | Special Waste Liquid | 71 | GAZ |
| | LOW RADIATION CONTAINING SMOKE DETECTORS | Special Waste Solid, Nuclear Regulatory Law 10 CFR 32.37 | | |
| | FIRE EXTINGUISHER(S) | Special Waste Solid | | |
| | METALS RECYCLING | Special Waste Solid | | |
| | MISCELLANEOUS RECYCLING <u>3 MICROWAVES</u> | | | |
| | MISCELLANEOUS RECYCLING <u>6 Large Fridges</u> | | 6 | ea |

Generator Certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Unpaid invoices will be assigned to a licensed Collection Agency and subject to Collection Agency Fee's, Attorney's Fee's, Court Costs and Interest.

| | | | |
|---|---------------------------|-----------------------------------|----------------------|
| Signature: <u>[Signature]</u> | Title: <u>Operator</u> | Print Name: <u>Jesus Casado</u> | Date: <u>11-6-18</u> |
| Transporter 1 Name: <u>Jesus Casado</u> | Transporter 2 Name: _____ | Phone Number: <u>720-245-1685</u> | Phone Number: _____ |
| Signature: <u>[Signature]</u> | Date: <u>11-6</u> | Signature: _____ | Date: _____ |

Receiving, subject to the classification and regulations in effect on the date of issue of the Bill of Lading, the property described above is in apparent good order. Please retain a copy of this document as the "Certification of Recycling" for the items and quantities listed above.

Signature: [Signature] Date: 11/6/18

10. Weight Tickets

10a. Daily Load Trackers and Associated Truck
Tickets

Daily Load Tracker

Prepared By: Jesus Casado

Dump Site Ticket Number

Project: AD 72 A

Date: 12-26-18



| Arrival Time | Departure Time | Load # | Truck # | Material Code | Description | Tons/Yards | Dump Site |
|--------------|----------------|--------|---------|---------------|-------------|------------|-----------|
| 1:35 | 1:55 | 1 | CH333 | trash | Demo debris | 18 yds | Dads |
| 1:55 | 2:15 | 2 | CH575 | trash | Demo debris | 18 yds | Dads |
| 7:30 | 7:50 | 3 | CH333 | trash | Demo debris | 18 yds | Dads |
| 7:50 | 8:05 | 4 | CH575 | trash | Demo debris | 18 yds | Dads |
| 9:20 | 9:35 | 5 | CH333 | trash | Demo debris | 18 yds | Dads |
| 9:35 | 9:50 | 6 | CH575 | trash | Demo debris | 18 yds | Dads |
| 11:05 | 11:20 | 7 | CH333 | trash | Demo debris | 18 yds | Dads |
| 11:35 | 11:55 | 8 | CH575 | trash | Demo debris | 18 yds | Dads |
| 1:30 | 1:45 | 9 | CH333 | trash | Demo debris | 18 yds | Dads |
| 1:45 | 2:00 | 10 | CH575 | trash | Demo debris | 18 yds | Dads |
| 4:30 | 4:45 | 11 | CH333 | trash | Demo debris | 18 yds | Dads |
| 4:45 | 5:00 | 12 | CH575 | trash | Demo debris | 18 yds | Dads |
| 9:05 | 9:25 | 13 | CH 01 | trash | Demo debris | 18 yds | Dads |
| 9:30 | 9:45 | 14 | CH589 | trash | Demo debris | 18 yds | Dads |
| 9:45 | 10:05 | 15 | CH376 | trash | Demo debris | 18 yds | Dads |
| 12:00 | 12:15 | 16 | CH 01 | trash | Demo debris | 18 yds | Dads |
| 12:15 | 12:30 | 17 | CH589 | trash | Demo debris | 18 yds | Dads |
| 12:35 | 12:55 | 18 | CH376 | trash | Demo debris | 18 yds | Dads |
| 1:25 | 1:40 | 19 | CH333 | trash | Demo debris | 18 yds | Dads |
| 2:00 | 2:20 | 20 | CH 01 | trash | Demo debris | 18 yds | Dads |

Legend:
 Materials:
 R = Recycle
 T = Trash
 Description:
 Concrete, Asphalt, Asbestos, Lumber,
 Construction Debris, Trash, Metals,

CHACON'S

construction & transport



No: 50886

2920 W. 73rd Ave
Westminster, CO 80030
FAX 303-487-5731
PH 720-357-1448

BILL TO: JKS

DISPATCHED BY:

DATE 12/26/18

JOB DESCRIPTION:

TRUCK # CH575

I-70

TANDEM TRAILER

MATERIAL Demo

| | LOADS | UNLOADS |
|---|------------------|---------|
| JOB# | 1 load | |
| LOAD AT 4625 Firmore St | 1 load 1 load | |
| UNLOAD AT DAD.S | 1 load | (u) |
| RATE \$ | | |
| HOURLY <input checked="" type="checkbox"/> TONMILE <input type="checkbox"/> | | |
| START TIME 7:30 | | |
| STOP TIME 3:30 | | |
| TOTAL HOURS | | |
| 8 hrs | | |
| OWNER OF TRUCK: | | |

DRIVER'S NAME

AUTHORIZED SIGNATURE

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

CHACON'S

construction & transport



No. 8091

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

BILL TO: JKS onst
 DISPATCHED BY: Chacon's onst
 DATE: 12-26-18
 TRUCK # CH 333
 TANDEM TRAILER
 MATERIAL Dirt
 JOB DESCRIPTION:

| | LOADS | UNLOADS |
|--|-----------------------------------|---------|
| JOB# | loads # | |
| LOAD AT I 70 clayton st | 8:00 dds 10:20 dds 1:00 dds | |
| UNLOAD AT Dads pt | | (6) |
| RATE \$ | | |
| HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/> | | |
| START TIME 7:30 | | |
| STOP TIME 3:30pm | | |
| TOTAL HOURS | | |
| 8 hrs | | |
| OWNER OF TRUCK: | | |

| | |
|--------------------------------|--|
| DRIVER'S NAME Justin Estola | AUTHORIZED SIGNATURE <i>[Signature]</i> |
|--------------------------------|--|

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

CHACON'S

construction & transport



No 50887

2920 W. 73rd Ave
Westminster, CO 80030
FAX 303-487-5731
PH 720-357-1448

BILL TO: JKS

DISPATCHED BY:

DATE 12/27/18

JOB DESCRIPTION:

TRUCK # CH 575

1-70

TANDEM TRAILER

MATERIAL Demo

| | LOADS | UNLOADS |
|---|-----------------|---------|
| JOB# | 1 load | |
| LOAD AT | 1 load | |
| 4825 Plimore | 1 load | |
| | 1 load | |
| | 1 load | |
| UNLOAD AT | | 0 |
| D.A.D.S | | |
| | | |
| | | |
| RATE \$ | | |
| HOURLY <input checked="" type="checkbox"/> TONMILE <input type="checkbox"/> | | |
| START TIME 7:30 | | |
| STOP TIME 6:30 | | |
| TOTAL HOURS | | |
| 11 hrs | | |
| | OWNER OF TRUCK: | |

DRIVER'S NAME

AUTHORIZED SIGNATURE

Manuel A

Manuel A

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

CHACONS

construction & transport



No. 8092

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

| | | |
|--|---------------------------|----------------|
| BILL TO: <i>J&S Const</i> | | |
| DISPATCHED BY: <i>Chacon Const</i> | | |
| DATE: <i>12-27-18</i> | JOB DESCRIPTION: | |
| TRUCK # <i>CM 333</i> | | |
| TANDEM <input type="checkbox"/> TRAILER <input checked="" type="checkbox"/> | | |
| MATERIAL <i>Demo</i> | | |
| | LOADS | UNLOADS |
| JOB# | <i>Loads #</i> | |
| LOAD AT <i>I 70</i> <i>clayton st</i> | <i>7:50</i> <i>clads</i> | <i>Ap-72 A</i> |
| | <i>9:30</i> <i>clads</i> | <i>Ap-72 A</i> |
| | <i>11:21</i> <i>clads</i> | <i>Ap-72 A</i> |
| | <i>1:55</i> <i>clads</i> | <i>Ap-72 A</i> |
| UNLOAD AT <i>Dade Pot</i> | | |
| | | <i>(S)</i> |
| RATE \$ | | |
| HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/> | | |
| START TIME <i>7:30</i> | | |
| STOP TIME <i>6:30 PM</i> | | |
| TOTAL HOURS | | |
| 11 hrs <i>11 hrs</i> | OWNER OF TRUCK: | |
| DRIVER'S NAME | AUTHORIZED SIGNATURE | |
| <i>Justin Costello</i> | <i>J. Costello</i> | |
| <small>Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.</small> | | |

CHACON'S
construction & transport



No 43134

2920 W. 73rd Ave
Westminster, CO 80030
FAX 303-487-5731
PH 720-357-1448

BILL TO: JKS Industries inc

DISPATCHED BY: Chacon Transport

DATE 12/28/18 JOB DESCRIPTION:

TRUCK # 6F-01 Demo Concrete

TANDEM TRAILER

MATERIAL Dirt Mix

LOADS

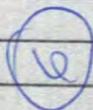
UNLOADS

JOB# 18603 9:15 * 9:55 AP (1) 72 A

LOAD AT 46^{Acad} Fillmore 11:05 * 11:45 AP (2) 72 A

2:30 * 4:00 AP (3) 72 A

UNLOAD AT Dads 3500 Eon Club



RATE \$

HOURLY TONMILE

START TIME 9:00

STOP TIME 4:00 PM

TOTAL HOURS

7hrs

OWNER OF TRUCK: Benito

DRIVER'S NAME

AUTHORIZED SIGNATURE

Benito Castillo

Benito Castillo

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

CHACON'S

construction & transport



No. 8107

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

BILL TO: **JKS**

DISPATCHED BY:

DATE: **12/28/18**

JOB DESCRIPTION:

TRUCK # **CH376**

I-70

TANDEM TRAILER

MATERIAL **DEMOLITION**

| | LOADS | UNLOADS |
|--|-------|---------|
|--|-------|---------|

| | | | |
|------|----------|--------------|----------------|
| JOB# | 7 | LOADS | AP 72-A |
|------|----------|--------------|----------------|

| | | | |
|---------|----------|-----------|----------------|
| LOAD AT | 2 | 11 | AP 72-A |
|---------|----------|-----------|----------------|

45th
DANTON ST

| | | | |
|-----------|--|--|------------|
| UNLOAD AT | | | (X) |
|-----------|--|--|------------|

D.A.O S

RATE \$

HOURLY TONMILE

START TIME **9:00am**

STOP TIME **5:00pm**

TOTAL HOURS

8hrs

OWNER OF TRUCK:

DRIVER'S NAME
m. mat

AUTHORIZED SIGNATURE
[Signature]

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

CHACON'S

construction & transport



No. 8093

2920 W. 73rd Ave.
Westminster, CO 80030
Fax 303-331-8259
PH 720-357-1448

| | | |
|---|------------------|---------|
| BILL TO: Jks Const | | |
| DISPATCHED BY: Chacon's Const | | |
| DATE: 12-28-18 | JOB DESCRIPTION: | |
| TRUCK # CH 333 | | |
| TANDEM <input type="checkbox"/> TRAILER <input checked="" type="checkbox"/> | | |
| MATERIAL Demo | | |
| | LOADS | UNLOADS |
| JOB# 18603 | loads # | |
| LOAD AT 46 th & York | 8:45 | 501608 |
| | 10:05 | 501642 |
| | 1:30 | |
| UNLOAD AT Henderson pit Dads pit | | (X) |
| RATE \$ | | |
| HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/> | | |
| START TIME 1:30 | | |
| STOP TIME 3:30 | | |
| TOTAL HOURS | | |
| 8 hrs | OWNER OF TRUCK: | |

| | |
|--|----------------------|
| DRIVER'S NAME | AUTHORIZED SIGNATURE |
| Justin Castelle | Juan Baez |
| <small>Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.</small> | |

10b. Waste Weight Tickets



2470008

Denver Arapahoe Disposal
3500 S Gun Club , PO Box 460397
Aurora, CO, 80018
Ph: (720) 876-2620

Original
Ticket# 3285330

| | | | | | |
|------------------|------------------|--------------|------------|----------------|----------------|
| Customer Name | JKSINDUSTRIESLLC | JKS Industri | Carrier | JKS INDUSTRIES | JKS INDUSTRIES |
| Ticket Date | 12/26/2018 | | Vehicle# | 1 | Volume |
| Payment Type | Credit Account | | Container | | |
| Manual Ticket# | | | Driver | | |
| Hauling Ticket# | | | Check# | | |
| Route | | | Billing # | 0014925 | |
| State Waste Code | | | Gen EPA ID | | |
| Manifest | | | Grid | | |
| Destination | | | | | |
| PO | | | | | |
| Profile | () | | | | |
| Generator | | | | | |

| | | | | | | |
|----------|--|-----------|-----------------|---------|-------|-------|
| | Time | Scale | Operator | Inbound | Gross | 2 lb* |
| In | 12/26/2018 08:15:51 | MANUAL WT | aramirez | | Tare | 1 lb* |
| Out | 12/26/2018 08:15:51 | | aramirez | | Net | 1 lb |
| | | | * Manual Weight | | Tons | |
| Comments | 15 loads from central 70 project 12/26/18 = 270yds total | | | | | |

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

| Product | LD% | Qty | UOM | Rate | Fee | Amount | Origin |
|--------------------------|-----|--------|-------|------|-----|--------|--------|
| 1 CDY-CONST DEBRIS - 100 | | 270.00 | Yards | | | | |

Total Fees
Total Ticket

402WM-N

Driver's Signature



Date: 2-26-18

Ticket#: AP-72-A

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____

Date: 2-26-18

Ticket#: AP 72A

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: Justin Castillo



2470010

Denver Arapahoe Disposal
3500 S Gun Club, PO Box 460397
Aurora, CO, 80018
Ph: (720) 876-2620

Original
Ticket# 3286017

Customer Name JKSINDUSTRIESLLC JKS Industri Carrier JKS INDUSTRIES JKS INDUSTRIES
Ticket Date 12/27/2018 Vehicle# 1 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0014925
State Waste Code Gen EPA ID
Manifest Grid
Destination
PO
Profile ()
Generator

| | Time | Scale | Operator | Inbound | Gross | Tare | 2 lb* |
|-----|---------------------|-----------|-----------------|---------|-------|------|-------|
| In | 12/27/2018 08:47:21 | MANUAL WT | aramirez | | | | 1 lb* |
| Out | 12/27/2018 08:47:21 | | aramirez | | Net | | 1 lb |
| | | | * Manual Weight | | Tons | | |

Comments 13 loads from 12/27/18 = 234yds total



PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

| Product | LD% | Qty | UOM | Rate | Fee | Amount | Origin |
|--------------------------|-----|--------|-------|------|-----|--------|--------|
| 1 CDY-CONST DEBRIS - 100 | | 234.00 | Yards | | | | |

Total Fees
Total Ticket

Driver Signature



Date: 12-27-18

Ticket#: AP 72-A

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS 25 YDS HIGHSIDES

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____

Date: 12-27-18

Ticket#: AP 72 A

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS 25 YDS HIGHSIDES

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: Justin Castillo

Date: 12-27-18

Ticket#: AP-72-A

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS / 25 YDS HIGHSIDES

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: Justin Castello

Date: 12-27-18

Ticket#: AP-72-A

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS / 25 YDS HIGHSIDES

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____



2470017

Denver Arapahoe Disposal
3500 S Gun Club, PO Box 460397
Aurora, CO 80018
Ph: (303) 876-3620

Original
Ticket# 3286852

Customer Name JKSINDUSTRIESLLC JKS Industri Carrier JKS INDUSTRIES JKS INDUSTRIES
Ticket Date 12/28/2018 Vehicle# 1 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#

Route
State Waste Code
Manifest
Destination
PO
Profile ()
Generator

Billing # 0014925
Gen EPA ID
Grid

| | Time | Scale | Operator | Inbound | Gross | 2 lb* |
|-----|---------------------|-----------|-----------------|---------|-------|-------|
| In | 12/28/2018 07:16:11 | MANUAL WT | aramirez | | Tare | 1 lb* |
| Out | 12/28/2018 07:16:11 | | aramirez | | Net | 1 lb |
| | | | * Manual Weight | | Tons | |

Comments 8 loads x 18 = 144yds total central 70 project



PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

| Product | LD% | Qty | UDM | Rate | Fee | Amount | Origin |
|----------------------|-----|--------|-------|------|-----|--------|--------|
| 1 CDY-CONST DEBRIS - | 100 | 144.00 | Yards | | | | |

Total Fees
Total Ticket

Driver Signature



Date: 12-28-18

Ticket#: AP 72 A

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS / 25 YDS HIGHSIDES

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: M. A. Clark

Date: 12-28-18

Ticket#: AP 72-A

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS / 25 YDS HIGHSIDES

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: _____

Date: 12-28-18

Ticket#: Ap 72 A

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: _____

Date: 12-28-18

Ticket#: Ap 72 A

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS ✓ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: _____

Date: 12-28-18

Ticket#: AP-72-A

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS _____ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: Justin Casper

Date: 12-28-18

Ticket#: AP 72 A

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS _____ 25 YDS HIGHSIDES _____

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER:

Signature: Brent

11. Dump Diversion Summary

JKS Industries
AP-72A: 2716 E 46th Ave

| Descriptions | | Dump Diversion / Recycle % | | | | | | | | |
|--------------|--------------------------------|----------------------------|--------------------------|-----------------|-----------------------|--------------------|-----------|-----------------|-------------------------------------|--------------------------------|
| Phase | Activity | Unit of Measure | # of Yards per Container | # of Containers | Total Number of Yards | Pounds Per Yard ** | Total Lbs | Recycled Yes/No | Pounds of Recycle or Dump Diversion | % of Recycle or Dump Diversion |
| Abatement | Trash Rolloff | Cubic Yard | - | - | - | 450.00 | - | | | |
| Abatement | Asbestos Containers | Cubic Yard | - | - | - | 500.00 | - | | | |
| | | | | | | | | | | |
| Demolition | Demolition Construction Debris | Cubic Yard | 18 | 20 | 360.00 | 1,400.00 | 504,000 | | | |
| Demolition | Concrete Debris | Cubic Yard | 12 | - | - | 4,050.00 | - | x | - | 0.00% |
| Demolition | Trees | Cubic Yard | - | - | - | 500.00 | - | x | - | 0.00% |
| Demolition | Steel | Lbs | - | - | - | - | - | x | - | 0.00% |
| Demolition | Copper | Lbs | - | - | - | - | - | x | - | 0.00% |
| | | | | 20 | 360.00 | | 504,000 | | - | 0.00% |

STUDY NOTES

- 1 The source material used for the Volume to Weight conversions came from Waste Management web site.
- 2 Conversions ratio's have been modified based on estimated compaction.

12. Containment Entry/Exit Log

JKS INDUSTRIES

CONTAINMENT SIGN-IN & SIGN-OUT SHEET

Thursday

Job Name:

Job #:

Date: 12-06-18

| NAME | SIGN-IN | SIGN-OUT | SIGN-IN | SIGN-OUT |
|---------------------|---------|----------|---------|----------|
| 1. Victor Lerma | 7:30 | 11:00 | 12:00 | 3:30 |
| 2. L. Ray Armijo | 7:30 | 11:00 | 12:00 | 3:30 |
| 3. Jessenia Galarza | 7:30 | 11:00 | 12:00 | 3:30 |
| 4. Ayra De Paz | 7:30 | 11:00 | 12:00 | 3:30 |
| 5. Paul W | 7:30 | 11:00 | 12:00 | 3:30 |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |

13. Daily Logs

JKS INDUSTRIES LLC DAILY PROJECT LOG

Job # 18-333
Date 12-05

Job Name: Kiewit AP-724
Day Wednesday Month Dec

Report # _____
Year 2018

Project Manager Steve

Superintendent Andrew Williams

| | | | |
|---|--|------------------------------|----------------|
| Work Performed Today <u>Setup & Remove</u> | | Weather: _____ | |
| <u>7:00</u> | <u>Tool Box & Safety Meeting</u> | Temp. Hi _____ Low _____ | Safety Meeting |
| <u>7:30</u> | <u>Remove Trash and debris from down stairs area and setup Containment</u> | Topic: _____ | |
| | | Work Force | Number |
| | | Project Manager | |
| <u>10:00</u> | <u>Setup containment</u> | Project Supervisor | <u>1</u> |
| | | Operators | |
| | | Laborers | |
| | | Tradesmen | <u>4</u> |
| <u>11:00</u> | <u>lunch</u> | Other: | |
| <u>12:00</u> | <u>Setup Containment</u> | Other: | |
| | | Other: | |
| | | Materials Used | Quantity |
| <u>2:00</u> | <u>Containment complete ready for removal</u> | | |
| <u>3:30</u> | <u>End of the day</u> | | |
| | <u>Completed task: 100% Setup 25% Removal</u> | | |
| | | Material Purchased/Delivered | |

Problems - Delays, Safety Issues

Subcontractor Progress

Inspections

sup

| Equipment Rented Today | Rented From | Insp Chklist Complete? | Equipment | Hours |
|------------------------|-------------|------------------------|-----------|-------|
| | | | | |
| | | | | |
| | | | | |

| Visitors (Incl. Subs, Clients, etc) | Time In/Time Out | Activity Onsite |
|-------------------------------------|------------------|-----------------|
| | | |
| | | |
| | | |

JKS INDUSTRIES LLC DAILY PROJECT LOG

Job # 18-333
Date 12-06

Job Name: Kiewit AP-72A
Day Thursday

Report # _____
Month Dec Year 2018

Project Manager Steve

Superintendent Andrew Williams

| | | | |
|--|---|------------------------------|----------|
| Work Performed Today <u>Remove Ducting & Boot Registers</u> | | Weather: _____ | |
| <u>7:00</u> | <u>Tool Box & Safety meeting</u> | Temp. Hi _____ Low _____ | |
| | | Safety Meeting | |
| <u>7:30</u> | <u>Continue removing duct work and Boot Register (ACM)</u> | Topic: | |
| | | Work Force | Number |
| | | Project Manager | |
| <u>10:30</u> | <u>Double bag, label, seal all (ACM) Ducting</u> | Project Supervisor | <u>1</u> |
| | | Operators | |
| <u>11:00</u> | <u>Lunch</u> | Laborers | |
| | | Tradesmen | <u>4</u> |
| <u>12:00</u> | <u>loadout Bags, washdown containment and prep for visual & air clearance</u> | Other: | |
| | | Other: | |
| | | Other: | |
| | | Materials Used | Quantity |
| <u>2:00</u> | <u>Change out HEPA Filters NAM Filters P.S.</u> | | |
| | | | |
| <u>3:30</u> | <u>End of day</u> | | |
| | <u>100% Ready for Clearance</u> | | |
| | | Material Purchased/Delivered | |
| | | | |
| | | | |
| | | | |

Problems - Delays, Safety Issues

None

Subcontractor Progress

Inspections

sup

| Equipment Rented Today | Rented From | Insp Chklist Complete? | Equipment | Hours |
|-------------------------------------|------------------|------------------------|-----------|-------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Visitors (Incl. Subs, Clients, etc) | Time In/Time Out | Activity Onsite | | |
| | | | | |
| | | | | |
| | | | | |

